

Detailed Lighting Retrofit Report

Client Name: BCIT Selected NE Buildings DEAR

Project Num: 2012168



Building Name: Parking Kiosk

Building Code: NE01PS

| Room Data | | | Existing Luminaire/Lamp Data | | | | | | Retrofit Data | | | | | | | | | | |
|--|-----------------------|--------------------------|------------------------------|----------------------|-----|-----------|-----------------------|--------------|---------------|-------------------------------|-----|-------------------------------------|-------------|------------|----------|-------------|----------------|----------------------|------------|
| Room | Room Type | Lock | Type Code | Description | Qty | Lamp Code | Lamp Description | Annual Hours | Lamp Code | Lamp Description | Qty | New Ctrls | Unit (Watt) | Exist (kW) | New (kW) | Exist (kWh) | Retrofit (kWh) | Energy Savings (kWh) | % kWh Save |
| NE01 Ki | Parking Payment Kiosk | <input type="checkbox"/> | FVD | F1x4 Vapour Resistan | 2 | 3244 | 2 - 32w RSFI T8 EL-IS | 8,760 | 8000 | 0 - Install Lighting Controls | 2 | <input checked="" type="checkbox"/> | 0 | 0.1 | 0.1 | 1,034 | 517 | 517 | 50% |
| <i>Existing Energy Summary for Building Parking Kiosk:</i> | | | | | 2 | | | | | | 2 | | | 0 | 0 | 1,034 | 517 | 517 | 50% |

*Controls Cost is for Unadjusted Materials and Labour and is included in the Extended Material and Extended Labour Costs.

Detailed Lighting Retrofit Report

Client Name: BCIT Selected NE Buildings DEAR

Project Num: 2012168



Building Name: Benchwork / Joinery

Building Code: NE02R

| Room Data | | | Existing Luminaire/Lamp Data | | | | | | Retrofit Data | | | | | | | | | | |
|--|-------------------------|--------------------------|------------------------------|----------------------|-----|-----------|----------------------------|--------------|---------------|-----------------------------|-----|-------------------------------------|-------------|------------|----------|-------------|----------------|----------------------|------------|
| Room | Room Type | Lock | Type Code | Description | Qty | Lamp Code | Lamp Description | Annual Hours | Lamp Code | Lamp Description | Qty | New Ctrls | Unit (Watt) | Exist (kW) | New (kW) | Exist (kWh) | Retrofit (kWh) | Energy Savings (kWh) | % kWh Save |
| 101 | Milling Shop | <input type="checkbox"/> | FIN | F1x4 Industrial | 241 | 7118 | 3- 32w RSFI T8 EL-RS 2& | 2,990 | 2844 | 3- 28w 4' RSFI T8 ES HE E | 241 | <input checked="" type="checkbox"/> | 73 | 21.3 | 16.7 | 67,015 | 44,713 | 22,302 | 33% |
| 101 | Milling Shop | <input type="checkbox"/> | IXL | LED Exit sign | 4 | 1001 | 1- 4 Watt LED Exit light R | 8,760 | 9000 | 0- No Action | 4 | <input type="checkbox"/> | 0 | 0.0 | 0.0 | 97 | 97 | 0 | 0% |
| 101 | Milling Shop | <input type="checkbox"/> | FII | F1x8 Tandem Industri | 12 | 3329 | 4- 32w RSFI T8 EL-RS 2& | 1,530 | 2854 | 4- 28w 4' RSFI T8 ES HE E | 12 | <input checked="" type="checkbox"/> | 96 | 1.4 | 1.1 | 2,277 | 1,498 | 778 | 34% |
| 102 | Storage | <input type="checkbox"/> | FTK | F2x4 Rec | 2 | 3244 | 4- 32w RSFI T8 EL-IS | 1,000 | 2933 | 2- Relamp with 28w 4' RSFI | 2 | <input type="checkbox"/> | 52 | 0.0 | 0.0 | 118 | 104 | 14 | 12% |
| 103 | Women's Washroom | <input type="checkbox"/> | FBG | F1x4 Box | 2 | 3256 | 2- 32w RSFI T8 EL-RS | 2,040 | 2832 | 2- 28w 4' RSFI T8 ES HE E | 2 | <input type="checkbox"/> | 48 | 0.1 | 0.1 | 253 | 196 | 57 | 23% |
| 104 | Men's Washroom | <input type="checkbox"/> | FCF | F1x4 Cubelight | 1 | 3208 | 2- 32w RSFI T8 EL-IS | 2,040 | 2820 | 1- 28w 4' RSFI T8 ES HE E | 1 | <input type="checkbox"/> | 25 | 0.0 | 0.0 | 63 | 51 | 12 | 19% |
| 104 | Men's Washroom | <input type="checkbox"/> | FBG | F1x4 Box | 2 | 3256 | 2- 32w RSFI T8 EL-RS | 2,040 | 2832 | 2- 28w 4' RSFI T8 ES HE E | 2 | <input type="checkbox"/> | 48 | 0.1 | 0.1 | 253 | 196 | 57 | 23% |
| 105 | Vestibule | <input type="checkbox"/> | IJA | Jam Jar | 1 | 1132 | 1- 60w Inc A19 | 4,420 | 1057 | 1- 12w 'A' line LED SI Lamp | 1 | <input type="checkbox"/> | 12 | 0.1 | 0.0 | 265 | 53 | 212 | 80% |
| 106 | Office | <input type="checkbox"/> | FTD | F1x4 Rec | 1 | 3256 | 2- 32w RSFI T8 EL-RS | 1,840 | 2832 | 2- 28w 4' RSFI T8 ES HE E | 1 | <input type="checkbox"/> | 48 | 0.1 | 0.0 | 114 | 88 | 26 | 23% |
| 106 | Office | <input type="checkbox"/> | CDG | Downlight | 8 | 2312 | 1- 26w quad CF | 2,040 | 1836 | 1- 15w LED Downlight Conv | 8 | <input type="checkbox"/> | 15 | 0.2 | 0.1 | 473 | 245 | 228 | 48% |
| 107 | Office | <input type="checkbox"/> | FTK | F2x4 Rec | 4 | 3244 | 4- 32w RSFI T8 EL-IS | 3,060 | 2933 | 2- Relamp with 28w 4' RSFI | 4 | <input type="checkbox"/> | 52 | 0.2 | 0.2 | 722 | 636 | 86 | 12% |
| 108 | Office | <input type="checkbox"/> | FTK | F2x4 Rec | 2 | 3244 | 4- 32w RSFI T8 EL-IS | 1,840 | 2933 | 2- Relamp with 28w 4' RSFI | 2 | <input type="checkbox"/> | 52 | 0.1 | 0.1 | 217 | 191 | 26 | 12% |
| 110 | Tools Office | <input type="checkbox"/> | FID | F1x4 Industrial | 2 | 3244 | 2- 32w RSFI T8 EL-IS | 2,295 | 2933 | 2- Relamp with 28w 4' RSFI | 2 | <input type="checkbox"/> | 52 | 0.1 | 0.1 | 271 | 239 | 32 | 12% |
| 110 | Tools Office | <input type="checkbox"/> | FID | F1x4 Industrial | 1 | 3256 | 2- 32w RSFI T8 EL-RS | 2,295 | 2832 | 2- 28w 4' RSFI T8 ES HE E | 1 | <input type="checkbox"/> | 48 | 0.1 | 0.0 | 142 | 110 | 32 | 23% |
| 110 | Tools Office | <input type="checkbox"/> | FWI | F2x4 Wrap | 1 | 3244 | 4- 32w RSFI T8 EL-IS | 2,295 | 2933 | 2- Relamp with 28w 4' RSFI | 1 | <input type="checkbox"/> | 52 | 0.1 | 0.0 | 135 | 119 | 16 | 12% |
| 111 | Tool Crib | <input type="checkbox"/> | FWI | F2x4 Wrap | 1 | 3244 | 4- 32w RSFI T8 EL-IS | 2,423 | 2933 | 2- Relamp with 28w 4' RSFI | 1 | <input type="checkbox"/> | 52 | 0.1 | 0.0 | 143 | 126 | 17 | 12% |
| 111 | Tool Crib | <input type="checkbox"/> | FWI | F2x4 Wrap | 4 | 3244 | 4- 32w RSFI T8 EL-IS | 2,423 | 2933 | 2- Relamp with 28w 4' RSFI | 4 | <input type="checkbox"/> | 52 | 0.1 | 0.1 | 343 | 504 | -161 | -47% |
| 111 | Tool Crib | <input type="checkbox"/> | FWI | F2x4 Wrap | 1 | 3244 | 4- 32w RSFI T8 EL-IS | 2,423 | 2933 | 2- Relamp with 28w 4' RSFI | 1 | <input type="checkbox"/> | 52 | 0.1 | 0.0 | 143 | 126 | 17 | 12% |
| 202 | Electrical Room/Storage | <input type="checkbox"/> | FIJ | F2x4 Industrial | 2 | 3244 | 4- 32w RSFI T8 EL-IS | 520 | 2933 | 2- Relamp with 28w 4' RSFI | 2 | <input type="checkbox"/> | 52 | 0.1 | 0.1 | 61 | 54 | 7 | 12% |
| 204 | Storage | <input type="checkbox"/> | FIJ | F2x4 Industrial | 2 | 3244 | 4- 32w RSFI T8 EL-IS | 520 | 2933 | 2- Relamp with 28w 4' RSFI | 2 | <input type="checkbox"/> | 52 | 0.0 | 0.0 | 61 | 54 | 7 | 12% |
| 207 | Office | <input type="checkbox"/> | FTI | F2x4 Rec | 2 | 3256 | 2- 32w RSFI T8 EL-RS | 2,040 | 2832 | 2- 28w 4' RSFI T8 ES HE E | 2 | <input type="checkbox"/> | 48 | 0.1 | 0.1 | 253 | 196 | 57 | 23% |
| 207 | Office | <input type="checkbox"/> | ITB | Track Head | 6 | 1205 | 1- 50w MR16 | 1,840 | 1054 | 1- 9w MR16 FL LED lamp | 6 | <input type="checkbox"/> | 9 | 0.3 | 0.1 | 552 | 99 | 453 | 82% |
| 208 | Lounge/Vestibule | <input type="checkbox"/> | FTI | F2x4 Rec | 2 | 3256 | 2- 32w RSFI T8 EL-RS | 2,295 | 2832 | 2- 28w 4' RSFI T8 ES HE E | 2 | <input type="checkbox"/> | 48 | 0.1 | 0.1 | 285 | 220 | 64 | 23% |
| 208A | Office | <input type="checkbox"/> | FTI | F2x4 Rec | 1 | 3256 | 2- 32w RSFI T8 EL-RS | 2,040 | 2832 | 2- 28w 4' RSFI T8 ES HE E | 1 | <input type="checkbox"/> | 48 | 0.1 | 0.0 | 126 | 98 | 29 | 23% |
| 208A | Office | <input type="checkbox"/> | ITB | Track Head | 6 | 1205 | 1- 50w MR16 | 1,840 | 1054 | 1- 9w MR16 FL LED lamp | 6 | <input type="checkbox"/> | 9 | 0.3 | 0.1 | 552 | 99 | 453 | 82% |
| 208B | Corridor | <input type="checkbox"/> | FTI | F2x4 Rec | 1 | 3256 | 2- 32w RSFI T8 EL-RS | 2,295 | 2832 | 2- 28w 4' RSFI T8 ES HE E | 1 | <input type="checkbox"/> | 48 | 0.1 | 0.0 | 142 | 110 | 32 | 23% |
| 210 | Storage | <input type="checkbox"/> | FWK | F1x8 Wrap - tandem | 2 | 3308 | 4- 32w RSFI T8 EL-IS | 680 | 2946 | 4- Relamp with 28w 4' RSFI | 2 | <input type="checkbox"/> | 98 | 0.2 | 0.2 | 152 | 133 | 19 | 13% |
| 210 | Storage | <input type="checkbox"/> | FWF | F1x4 Wrap | 1 | 3256 | 2- 32w RSFI T8 EL-RS | 680 | 2832 | 2- 28w 4' RSFI T8 ES HE E | 1 | <input type="checkbox"/> | 48 | 0.1 | 0.0 | 42 | 33 | 10 | 23% |
| 210 | Storage | <input type="checkbox"/> | FWF | F1x4 Wrap | 2 | 3244 | 2- 32w RSFI T8 EL-IS | 680 | 2933 | 2- Relamp with 28w 4' RSFI | 2 | <input type="checkbox"/> | 52 | 0.1 | 0.1 | 80 | 71 | 10 | 12% |
| 211 | Conference Room/Semin | <input type="checkbox"/> | CDG | Downlight | 16 | 2312 | 1- 26w quad CF | 900 | 1836 | 1- 15w LED Downlight Conv | 16 | <input type="checkbox"/> | 15 | 0.4 | 0.2 | 418 | 216 | 202 | 48% |
| 211 | Conference Room/Semin | <input type="checkbox"/> | IDP | Downlight Round | 6 | 1205 | 1- 50w MR16 | 900 | 1054 | 1- 9w MR16 FL LED lamp | 6 | <input type="checkbox"/> | 9 | 0.3 | 0.1 | 270 | 49 | 221 | 82% |
| Ext | Exterior | <input type="checkbox"/> | HWD | Wall Pack | 8 | 6006 | 1- 100w HPS | 4,380 | 1083 | 1- 71w LED WP FL NEW | 8 | <input type="checkbox"/> | 71 | 1.0 | 0.5 | 4,555 | 2,488 | 2,067 | 45% |
| Ext | Exterior | <input type="checkbox"/> | HVB | Vapour / Weather pro | 4 | 6002 | 1- 50w HPS | 4,380 | 1064 | 1- 21w LED FC WP FL NE | 4 | <input type="checkbox"/> | 21 | 0.3 | 0.1 | 1,156 | 368 | 788 | 68% |
| Existing Energy Summary for Building Benchwork / Joinery: | | | | | 351 | | | | | | 351 | | | 28 | 21 | 81,751 | 53,580 | 28,171 | 34% |

*Controls Cost is for Unadjusted Materials and Labour and is included in the Extended Material and Extended Labour Costs.

Detailed Lighting Retrofit Report

Client Name: BCIT Selected NE Buildings DEAR
 Building Name: Tech Centre

Project Num: 2012168
 Building Code: NE03R



| Room Data | | | Existing Luminaire/Lamp Data | | | | | | Retrofit Data | | | | | | | | | | | | | |
|--|--------------------------|--------------------------|------------------------------|---------------------------|-----|-----------|----------------------------|--------------|---------------|------------------------------|-----|--------------------------|-------------|------------|----------|-------------|----------------|----------------------|------------|--------|-------|-----|
| Room | Room Type | Lock | Type Code | Description | Qty | Lamp Code | Lamp Description | Annual Hours | Lamp Code | Lamp Description | Qty | New Ctrls | Unit (Watt) | Exist (kW) | New (kW) | Exist (kWh) | Retrofit (kWh) | Energy Savings (kWh) | % kWh Save | | | |
| 100 | Photovoltaic Engineering | <input type="checkbox"/> | FBG | F1x4 Box | 10 | 3294 | 2 - 32w RSFI T8 EL-LBF S | 2,040 | 2937 | 2 - Relamp with 28w 4' RSFI | 10 | <input type="checkbox"/> | 43 | 0.5 | 0.4 | 1,000 | 877 | 122 | 12% | | | |
| 100 | Photovoltaic Engineering | <input type="checkbox"/> | FBG | F1x4 Box | 3 | 3248 | 2 - 32w RSFI T8 EL-LBF | 2,040 | 2934 | 2 - Relamp with 28w 4' RSFI | 3 | <input type="checkbox"/> | 45 | 0.1 | 0.1 | 312 | 275 | 37 | 12% | | | |
| 100A | Corridor | <input type="checkbox"/> | IDB | Downlight Round | 2 | 2008 | 1 - 15w CF spiral SI (Scre | 3,570 | 1812 | 1 - 9w LED Downlight Conve | 2 | <input type="checkbox"/> | 9 | 0.0 | 0.0 | 107 | 64 | 43 | 40% | | | |
| 100A | Corridor | <input type="checkbox"/> | IXL | LED Exit sign | 1 | 1008 | 2 - 2 Watt LED Lightbar | 8,760 | 9000 | 0 - No Action | 1 | <input type="checkbox"/> | 0 | 0.0 | 0.0 | 18 | 18 | 0 | 0% | | | |
| 102 | Micromachining Lab | <input type="checkbox"/> | FSE | F4' striplight | 12 | 3218 | 1 - 32w RSFI T8 EL-LBF S | 1,000 | 2929 | 1 - Relamp with 28w 4' RSFI | 12 | <input type="checkbox"/> | 22.5 | 0.3 | 0.3 | 306 | 270 | 36 | 12% | | | |
| 102 | Micromachining Lab | <input type="checkbox"/> | FBN | F2x4 Box | 44 | 3317 | 4 - 32w RSFI T8 EL-LBF 2 | 3,060 | 2947 | 4 - Relamp with 28w 4' RSFI | 44 | <input type="checkbox"/> | 90 | 4.3 | 3.8 | 13,733 | 12,118 | 1,616 | 12% | | | |
| 102 | Micromachining Lab | <input type="checkbox"/> | IXL | LED Exit sign | 3 | 1008 | 2 - 2 Watt LED Lightbar | 8,760 | 9000 | 0 - No Action | 3 | <input type="checkbox"/> | 0 | 0.0 | 0.0 | 53 | 53 | 0 | 0% | | | |
| 102A | Corridor | <input type="checkbox"/> | IDA | Downlight Round | 2 | 2008 | 1 - 15w CF spiral SI (Scre | 3,570 | 1812 | 1 - 9w LED Downlight Conve | 2 | <input type="checkbox"/> | 9 | 0.0 | 0.0 | 107 | 64 | 43 | 40% | | | |
| 102B | Men's Washroom | <input type="checkbox"/> | FWI | F2x4 Wrap | 1 | 3244 | 4 - 32w RSFI T8 EL-IS | 1,040 | 2933 | 2 - Relamp with 28w 4' RSFI | 1 | <input type="checkbox"/> | 52 | 0.0 | 0.0 | 61 | 54 | 7 | 12% | | | |
| 103 | Main Office | <input type="checkbox"/> | FWG | F2x4 Wrap | 6 | 3248 | 2 - 32w RSFI T8 EL-LBF | 3,060 | 2833 | 2 - 28w 4' RSFI T8 ES HE E | 3 | <input type="checkbox"/> | 48 | 0.3 | 0.1 | 936 | 441 | 496 | 53% | | | |
| 104 | Office | <input type="checkbox"/> | FWG | F2x4 Wrap | 4 | 3248 | 2 - 32w RSFI T8 EL-LBF | 3,060 | 2833 | 2 - 28w 4' RSFI T8 ES HE E | 2 | <input type="checkbox"/> | 48 | 0.2 | 0.1 | 624 | 294 | 330 | 53% | | | |
| 104A | Hub | <input type="checkbox"/> | IJC | Jam Jar | 1 | 2013 | 1 - 20w CF spiral SI (Scre | 2,988 | 1057 | 1 - 12w 'A' line LED SI Lamp | 1 | <input type="checkbox"/> | 12 | 0.0 | 0.0 | 60 | 36 | 24 | 40% | | | |
| 104B | Corridor | <input type="checkbox"/> | IXL | LED Exit sign | 1 | 1008 | 2 - 2 Watt LED Lightbar | 8,760 | 9000 | 0 - No Action | 1 | <input type="checkbox"/> | 0 | 0.0 | 0.0 | 18 | 18 | 0 | 0% | | | |
| 104B | Corridor | <input type="checkbox"/> | IDB | Downlight Round | 2 | 2008 | 1 - 15w CF spiral SI (Scre | 3,570 | 1812 | 1 - 9w LED Downlight Conve | 2 | <input type="checkbox"/> | 9 | 0.0 | 0.0 | 107 | 64 | 43 | 40% | | | |
| 105 | Electrical Room | <input type="checkbox"/> | FII | F1x8 Tandem Industri | 1 | 3316 | 4 - 32w RSFI T8 EL-LBF | 255 | 2948 | 4 - Relamp with 28w 4' RSFI | 1 | <input type="checkbox"/> | 86 | 0.1 | 0.1 | 25 | 22 | 3 | 12% | | | |
| 106 | Women's Washroom | <input type="checkbox"/> | FWG | F2x4 Wrap | 1 | 3248 | 2 - 32w RSFI T8 EL-LBF | 1,040 | 2934 | 2 - Relamp with 28w 4' RSFI | 1 | <input type="checkbox"/> | 45 | 0.0 | 0.0 | 53 | 47 | 6 | 12% | | | |
| Covered Storage Yard | | <input type="checkbox"/> | FRF | F4' striplight w/reflecto | 5 | 3248 | 2 - 32w RSFI T8 EL-LBF | 4,380 | 9000 | 0 - No Action | 5 | <input type="checkbox"/> | 0 | 0.2 | 0.2 | 1,117 | 1,117 | 0 | 0% | | | |
| Exterior Vestibule | | <input type="checkbox"/> | IDB | Downlight Round | 1 | 2008 | 1 - 15w CF spiral SI (Scre | 4,420 | 1812 | 1 - 9w LED Downlight Conve | 1 | <input type="checkbox"/> | 9 | 0.0 | 0.0 | 66 | 40 | 27 | 40% | | | |
| Existing Energy Summary for Building Tech Centre: | | | | | 100 | | | | | | 95 | | | | | | 6 | 5 | 18,703 | 15,870 | 2,833 | 15% |

*Controls Cost is for Unadjusted Materials and Labour and is included in the Extended Material and Extended Labour Costs.

Detailed Lighting Retrofit Report

Client Name: BCIT Selected NE Buildings DEAR

Project Num: 2012168



Building Name: Canopy

Building Code: NE04A

| Room Data | | | Existing Luminaire/Lamp Data | | | | | | Retrofit Data | | | | | | | | | | |
|---|-------------------------|--------------------------|------------------------------|----------------|-----|-----------|------------------|--------------|---------------|---------------------|-----|-------------------------------------|-------------|------------|----------|-------------|----------------|----------------------|------------|
| Room | Room Type | Lock | Type Code | Description | Qty | Lamp Code | Lamp Description | Annual Hours | Lamp Code | Lamp Description | Qty | New Ctrls | Unit (Watt) | Exist (kW) | New (kW) | Exist (kWh) | Retrofit (kWh) | Energy Savings (kWh) | % kWh Save |
| Canopy | Exterior Canopy Work Ar | <input type="checkbox"/> | MHG | High / Low Bay | 45 | 5014 | 1 - 400w MH | 2,880 | 1088 | 1 - 325w LED HB NEW | 45 | <input checked="" type="checkbox"/> | 325 | 19.2 | 13.9 | 58,320 | 31,590 | 26,730 | 46% |
| <i>Existing Energy Summary for Building Canopy:</i> | | | | | 45 | | | | | | 45 | | | 19 | 14 | 58,320 | 31,590 | 26,730 | 46% |

*Controls Cost is for Unadjusted Materials and Labour and is included in the Extended Material and Extended Labour Costs.

Detailed Lighting Retrofit Report

Client Name: BCIT Selected NE Buildings DEAR

Project Num: 2012168



Building Name: Carpentry

Building Code: NE04R

| Room Data | | | Existing Luminaire/Lamp Data | | | | | | Retrofit Data | | | | | | | | | | |
|-----------|-----------------------|--------------------------|------------------------------|--------------------|-----|-----------|---------------------------|--------------|---------------|-----------------------------|-----|--------------------------|-------------|------------|----------|-------------|----------------|----------------------|------------|
| Room | Room Type | Lock | Type Code | Description | Qty | Lamp Code | Lamp Description | Annual Hours | Lamp Code | Lamp Description | Qty | New Ctrls | Unit (Watt) | Exist (kW) | New (kW) | Exist (kWh) | Retrofit (kWh) | Energy Savings (kWh) | % kWh Save |
| 101 | Carpentry Shop | <input type="checkbox"/> | FIN | F1x4 Industrial | 60 | 7118 | 6- 32w RSFI T8 EL-RS 2& | 2,990 | 3186 | 0- Reuse existing 3-32w RS | 60 | <input type="checkbox"/> | 83 | 5.3 | 4.7 | 16,684 | 14,890 | 1,794 | 11% |
| 101 | Carpentry Shop | <input type="checkbox"/> | FID | F1x4 Industrial | 177 | 3256 | 2- 32w RSFI T8 EL-RS | 2,990 | 3183 | 0- Reuse existing 2-32w RS | 177 | <input type="checkbox"/> | 55 | 10.4 | 9.2 | 32,812 | 29,108 | 3,705 | 11% |
| 101 | Carpentry Shop | <input type="checkbox"/> | FIC | F1x4 Industrial | 177 | 3234 | 1- 32w RSFI T8 EL-RS Sh | 2,990 | 3385 | 0- Reuse existing 32w RSFI | 177 | <input type="checkbox"/> | 25.5 | 5.2 | 4.3 | 16,406 | 13,495 | 2,911 | 18% |
| 101J | Finishing | <input type="checkbox"/> | FID | F1x4 Industrial | 10 | 3244 | 2- 32w RSFI T8 EL-IS | 2,423 | 2933 | 2- Relamp with 28w 4' RSFI | 10 | <input type="checkbox"/> | 52 | 0.6 | 0.5 | 1,429 | 1,260 | 170 | 12% |
| 102 | Storage | <input type="checkbox"/> | FID | F1x4 Industrial | 2 | 3248 | 2- 32w RSFI T8 EL-LBF | 1,000 | 2934 | 2- Relamp with 28w 4' RSFI | 2 | <input type="checkbox"/> | 45 | 0.0 | 0.0 | 102 | 90 | 12 | 12% |
| 103 | Storage | <input type="checkbox"/> | FIJ | F2x4 Industrial | 1 | 3244 | 4- 32w RSFI T8 EL-IS | 1,000 | 2933 | 2- Relamp with 28w 4' RSFI | 1 | <input type="checkbox"/> | 52 | 0.0 | 0.0 | 35 | 52 | -17 | -47% |
| 104 | Women's Washroom | <input type="checkbox"/> | FSE | F4' striplight | 2 | 3208 | 1- 32w RSFI T8 EL-IS | 1,840 | 2926 | 1- Relamp with 28w 4' RSFI | 2 | <input type="checkbox"/> | 26 | 0.1 | 0.0 | 114 | 96 | 18 | 16% |
| 106 | Men's Washroom | <input type="checkbox"/> | FBG | F1x4 Box | 2 | 3248 | 2- 32w RSFI T8 EL-LBF | 2,990 | 2934 | 2- Relamp with 28w 4' RSFI | 2 | <input type="checkbox"/> | 45 | 0.1 | 0.1 | 305 | 269 | 36 | 12% |
| 107 | Storage | <input type="checkbox"/> | FID | F1x4 Industrial | 1 | 3248 | 2- 32w RSFI T8 EL-LBF | 1,000 | 2934 | 2- Relamp with 28w 4' RSFI | 1 | <input type="checkbox"/> | 45 | 0.0 | 0.0 | 51 | 45 | 6 | 12% |
| 108 | Storage | <input type="checkbox"/> | FID | F1x4 Industrial | 3 | 3256 | 2- 32w RSFI T8 EL-RS | 1,000 | 2832 | 2- 28w 4' RSFI T8 ES HE E | 3 | <input type="checkbox"/> | 48 | 0.0 | 0.0 | 186 | 144 | 42 | 23% |
| 109 | Grinders | <input type="checkbox"/> | FTD | F1x4 Rec | 1 | 3248 | 2- 32w RSFI T8 EL-LBF | 2,423 | 2934 | 2- Relamp with 28w 4' RSFI | 1 | <input type="checkbox"/> | 45 | 0.0 | 0.0 | 124 | 109 | 15 | 12% |
| 109 | Grinders | <input type="checkbox"/> | FTK | F2x4 Rec | 5 | 3316 | 4- 32w RSFI T8 EL-LBF | 2,423 | 2948 | 4- Relamp with 28w 4' RSFI | 5 | <input type="checkbox"/> | 86 | 0.5 | 0.4 | 1,187 | 1,042 | 145 | 12% |
| 111 | Storage | <input type="checkbox"/> | FWF | F1x4 Wrap | 2 | 3248 | 2- 32w RSFI T8 EL-LBF | 1,000 | 2934 | 2- Relamp with 28w 4' RSFI | 2 | <input type="checkbox"/> | 45 | 0.1 | 0.1 | 102 | 90 | 12 | 12% |
| 111A | Storage | <input type="checkbox"/> | FWF | F1x4 Wrap | 2 | 3248 | 2- 32w RSFI T8 EL-LBF | 1,000 | 2934 | 2- Relamp with 28w 4' RSFI | 2 | <input type="checkbox"/> | 45 | 0.1 | 0.1 | 102 | 90 | 12 | 12% |
| 112 | Tool Crib | <input type="checkbox"/> | FID | F1x4 Industrial | 4 | 3244 | 2- 32w RSFI T8 EL-IS | 2,295 | 2933 | 2- Relamp with 28w 4' RSFI | 4 | <input type="checkbox"/> | 52 | 0.2 | 0.2 | 542 | 477 | 64 | 12% |
| 112 | Tool Crib | <input type="checkbox"/> | FID | F1x4 Industrial | 1 | 3256 | 2- 32w RSFI T8 EL-RS | 2,295 | 2832 | 2- 28w 4' RSFI T8 ES HE E | 1 | <input type="checkbox"/> | 48 | 0.1 | 0.0 | 142 | 110 | 32 | 23% |
| 112 | Tool Crib | <input type="checkbox"/> | FIN | F1x4 Industrial | 6 | 3244 | 3- 32w RSFI T8 EL-IS | 2,295 | 2933 | 2- Relamp with 28w 4' RSFI | 6 | <input type="checkbox"/> | 52 | 0.3 | 0.3 | 812 | 716 | 96 | 12% |
| 202 | Electrical/Storage | <input type="checkbox"/> | FID | F1x4 Industrial | 8 | 3248 | 2- 32w RSFI T8 EL-LBF | 255 | 2934 | 2- Relamp with 28w 4' RSFI | 8 | <input type="checkbox"/> | 45 | 0.1 | 0.1 | 104 | 92 | 12 | 12% |
| 207 | Storage | <input type="checkbox"/> | ILB | Keyless Lampholder | 1 | 2015 | 1- 23w CF SI (Screw in) | 255 | 1057 | 1- 12w 'A' line LED SI Lamp | 1 | <input type="checkbox"/> | 12 | 0.0 | 0.0 | 6 | 3 | 3 | 48% |
| 208 | Electrical/Storage | <input type="checkbox"/> | FWF | F1x4 Wrap | 2 | 3256 | 2- 32w RSFI T8 EL-RS | 1,000 | 2832 | 2- 28w 4' RSFI T8 ES HE E | 2 | <input type="checkbox"/> | 48 | 0.0 | 0.0 | 124 | 96 | 28 | 23% |
| 208 | Electrical/Storage | <input type="checkbox"/> | ILB | Keyless Lampholder | 1 | 2010 | 1- 20w CF SI (Screw in) | 1,000 | 1057 | 1- 12w 'A' line LED SI Lamp | 1 | <input type="checkbox"/> | 12 | 0.0 | 0.0 | 20 | 12 | 8 | 40% |
| 216 | Conference Room/Loung | <input type="checkbox"/> | ITD | Track Head | 2 | 1115 | 1- 30w Inc R20 | 900 | 1051 | 1- 8w PAR20 LED FL lamp | 2 | <input type="checkbox"/> | 8 | 0.1 | 0.0 | 54 | 14 | 40 | 73% |
| 216 | Conference Room/Loung | <input type="checkbox"/> | FBN | F2x4 Box | 2 | 3244 | 4- 32w RSFI T8 EL-IS | 2,295 | 2933 | 2- Relamp with 28w 4' RSFI | 2 | <input type="checkbox"/> | 52 | 0.1 | 0.1 | 271 | 239 | 32 | 12% |
| 216 | Conference Room/Loung | <input type="checkbox"/> | ILB | Keyless Lampholder | 1 | 2030 | 1- 23w CF Spiral SI (Scre | 900 | 1057 | 1- 12w 'A' line LED SI Lamp | 1 | <input type="checkbox"/> | 12 | 0.0 | 0.0 | 21 | 11 | 10 | 48% |
| 216 | Conference Room/Loung | <input type="checkbox"/> | FBN | F2x4 Box | 4 | 3293 | 4- 32w RSFI T8 EL-IS Sh | 2,295 | 2936 | 2- Relamp with 28w 4' RSFI | 4 | <input type="checkbox"/> | 49 | 0.2 | 0.2 | 514 | 450 | 64 | 13% |
| 217 | Office | <input type="checkbox"/> | FBN | F2x4 Box | 2 | 3244 | 4- 32w RSFI T8 EL-IS | 1,840 | 2933 | 2- Relamp with 28w 4' RSFI | 2 | <input type="checkbox"/> | 52 | 0.1 | 0.1 | 217 | 191 | 26 | 12% |
| 217 | Office | <input type="checkbox"/> | FBG | F1x4 Box | 1 | 3244 | 2- 32w RSFI T8 EL-IS | 1,840 | 2933 | 2- Relamp with 28w 4' RSFI | 1 | <input type="checkbox"/> | 52 | 0.1 | 0.0 | 109 | 96 | 13 | 12% |
| 217 | Office | <input type="checkbox"/> | FBN | F2x4 Box | 1 | 3244 | 4- 32w RSFI T8 EL-IS | 1,840 | 2933 | 2- Relamp with 28w 4' RSFI | 1 | <input type="checkbox"/> | 52 | 0.1 | 0.0 | 109 | 96 | 13 | 12% |
| 218 | Corridor/Vestibule | <input type="checkbox"/> | FTK | F2x4 Rec | 2 | 3244 | 4- 32w RSFI T8 EL-IS | 2,423 | 2933 | 2- Relamp with 28w 4' RSFI | 2 | <input type="checkbox"/> | 52 | 0.1 | 0.1 | 286 | 252 | 34 | 12% |
| 218 | Corridor/Vestibule | <input type="checkbox"/> | FTK | F2x4 Rec | 4 | 3244 | 4- 32w RSFI T8 EL-IS | 2,423 | 2933 | 2- Relamp with 28w 4' RSFI | 4 | <input type="checkbox"/> | 52 | 0.2 | 0.2 | 572 | 504 | 68 | 12% |
| 218A | Storage | <input type="checkbox"/> | FTK | F2x4 Rec | 2 | 3244 | 4- 32w RSFI T8 EL-IS | 1,000 | 2933 | 2- Relamp with 28w 4' RSFI | 2 | <input type="checkbox"/> | 52 | 0.0 | 0.0 | 118 | 104 | 14 | 12% |
| 218B | Vestibule | <input type="checkbox"/> | FWF | F1x4 Wrap | 1 | 3248 | 2- 32w RSFI T8 EL-LBF | 6,552 | 2934 | 2- Relamp with 28w 4' RSFI | 1 | <input type="checkbox"/> | 45 | 0.0 | 0.0 | 334 | 295 | 39 | 12% |
| 218B | Vestibule | <input type="checkbox"/> | IXL | LED Exit sign | 1 | 1008 | 2- 2 Watt LED Lightbar | 8,760 | 9000 | 0- No Action | 1 | <input type="checkbox"/> | 0 | 0.0 | 0.0 | 18 | 18 | 0 | 0% |
| 218C | Office | <input type="checkbox"/> | FTK | F2x4 Rec | 2 | 3244 | 4- 32w RSFI T8 EL-IS | 1,840 | 2933 | 2- Relamp with 28w 4' RSFI | 2 | <input type="checkbox"/> | 52 | 0.1 | 0.1 | 217 | 191 | 26 | 12% |

*Controls Cost is for Unadjusted Materials and Labour and is included in the Extended Material and Extended Labour Costs.

Detailed Lighting Retrofit Report

Client Name: BCIT Selected NE Buildings DEAR

Project Num: 2012168



Building Name: Carpentry

Building Code: NE04R

| Room Data | | | Existing Luminaire/Lamp Data | | | | | | Retrofit Data | | | | | | | | | | |
|--|-----------|--------------------------|------------------------------|----------------------|-----|-----------|-----------------------|--------------|---------------|-----------------------------|-----|--------------------------|-------------|------------|----------|-------------|----------------|----------------------|------------|
| Room | Room Type | Lock | Type Code | Description | Qty | Lamp Code | Lamp Description | Annual Hours | Lamp Code | Lamp Description | Qty | New Ctrls | Unit (Watt) | Exist (kW) | New (kW) | Exist (kWh) | Retrofit (kWh) | Energy Savings (kWh) | % kWh Save |
| 218D | Office | <input type="checkbox"/> | FTK | F2x4 Rec | 2 | 3244 | 4 - 32w RSFI T8 EL-IS | 1,840 | 2933 | 2 - Relamp with 28w 4' RSFI | 2 | <input type="checkbox"/> | 52 | 0.1 | 0.1 | 217 | 191 | 26 | 12% |
| 218E | Office | <input type="checkbox"/> | FTK | F2x4 Rec | 2 | 3244 | 4 - 32w RSFI T8 EL-IS | 1,840 | 2933 | 2 - Relamp with 28w 4' RSFI | 2 | <input type="checkbox"/> | 52 | 0.1 | 0.1 | 217 | 191 | 26 | 12% |
| Ext | Exterior | <input type="checkbox"/> | HWD | Wall Pack | 8 | 6006 | 1 - 100w HPS | 4,380 | 1083 | 1 - 71w LED WP FL NEW | 8 | <input type="checkbox"/> | 71 | 1.0 | 0.5 | 4,555 | 2,488 | 2,067 | 45% |
| Ext | Exterior | <input type="checkbox"/> | HVB | Vapour / Weather pro | 4 | 6002 | 1 - 50w HPS | 4,380 | 1064 | 1 - 21w LED FC WP FL NE | 4 | <input type="checkbox"/> | 21 | 0.3 | 0.1 | 1,156 | 368 | 788 | 68% |
| <i>Existing Energy Summary for Building Carpentry:</i> | | | | | 509 | | | | | | 509 | | | 26 | 22 | 80,374 | 67,984 | 12,390 | 15% |

*Controls Cost is for Unadjusted Materials and Labour and is included in the Extended Material and Extended Labour Costs.

Detailed Lighting Retrofit Report

Client Name: BCIT Selected NE Buildings DEAR
 Building Name: Plumbing

Project Num: 2012168
 Building Code: NE06R



| Room Data | | | Existing Luminaire/Lamp Data | | | | | | Retrofit Data | | | | | | | | | | |
|-----------|-------------------------|--------------------------|------------------------------|-----------------------|-----|-----------|----------------------------|--------------|---------------|------------------------------|-----|-------------------------------------|-------------|------------|----------|-------------|----------------|----------------------|------------|
| Room | Room Type | Lock | Type Code | Description | Qty | Lamp Code | Lamp Description | Annual Hours | Lamp Code | Lamp Description | Qty | New Ctrls | Unit (Watt) | Exist (kW) | New (kW) | Exist (kWh) | Retrofit (kWh) | Energy Savings (kWh) | % kWh Save |
| 101A | Work Floor | <input type="checkbox"/> | FID | F1x4 Industrial | 22 | 3293 | 2- 32w RSFI T8 EL-IS Sh | 3,640 | 8000 | 0- Install Lighting Controls | 22 | <input checked="" type="checkbox"/> | 0 | 1.2 | 1.2 | 4,484 | 3,588 | 897 | 20% |
| 101A | Work Floor | <input type="checkbox"/> | IXL | LED Exit sign | 4 | 1001 | 1- 4 Watt LED Exit light R | 8,760 | 9000 | 0- No Action | 4 | <input type="checkbox"/> | 0 | 0.0 | 0.0 | 97 | 97 | 0 | 0% |
| 101A | Work Floor | <input type="checkbox"/> | FIO | F1x8 Industrial | 26 | 7120 | 6- 32w RSFI T8 EL-IS 4L | 3,640 | 9000 | 0- No Action | 26 | <input type="checkbox"/> | 0 | 4.2 | 4.2 | 16,089 | 16,089 | 0 | 0% |
| 101B | Electrical Room | <input type="checkbox"/> | NEL | No Existing Luminaire | 1 | 1000 | 0- No Lamp | 0 | 9000 | 0- No Action | 1 | <input type="checkbox"/> | 0 | 0.0 | 0.0 | 0 | 0 | 0 | 0% |
| 101C | Shop Corridor | <input type="checkbox"/> | IXL | LED Exit sign | 1 | 1001 | 1- 4 Watt LED Exit light R | 8,760 | 9000 | 0- No Action | 1 | <input type="checkbox"/> | 0 | 0.0 | 0.0 | 24 | 24 | 0 | 0% |
| 101D | Work Floor | <input type="checkbox"/> | FID | F1x4 Industrial | 4 | 3244 | 2- 32w RSFI T8 EL-IS | 2,423 | 2933 | 2- Relamp with 28w 4' RSFI | 4 | <input type="checkbox"/> | 52 | 0.2 | 0.2 | 572 | 504 | 68 | 12% |
| 101D | Work Floor | <input type="checkbox"/> | FIO | F1x8 Industrial | 41 | 7120 | 6- 32w RSFI T8 EL-IS 4L | 3,640 | 9000 | 0- No Action | 41 | <input type="checkbox"/> | 0 | 6.6 | 6.6 | 25,371 | 25,371 | 0 | 0% |
| 101D | Work Floor | <input type="checkbox"/> | FIO | F1x8 Industrial | 8 | 3487 | 6- 34w RSFI T12 - EE 3 b | 3,640 | 9420 | 0- Delamp & Electrically Dis | 8 | <input type="checkbox"/> | 0.0001 | 1.7 | 0.0 | 6,465 | 0 | 6,465 | 100% |
| 101D | Work Floor | <input type="checkbox"/> | IXL | LED Exit sign | 2 | 1001 | 1- 4 Watt LED Exit light R | 8,760 | 9000 | 0- No Action | 2 | <input type="checkbox"/> | 0 | 0.0 | 0.0 | 48 | 48 | 0 | 0% |
| 101E | Shop Corridor | <input type="checkbox"/> | IXL | LED Exit sign | 1 | 1001 | 1- 4 Watt LED Exit light R | 8,760 | 9000 | 0- No Action | 1 | <input type="checkbox"/> | 0 | 0.0 | 0.0 | 24 | 24 | 0 | 0% |
| 101Loft | Roof | <input type="checkbox"/> | FID | F1x4 Industrial | 23 | 3244 | 2- 32w RSFI T8 EL-IS | 3,640 | 2933 | 2- Relamp with 28w 4' RSFI | 23 | <input type="checkbox"/> | 52 | 1.3 | 1.1 | 4,939 | 4,353 | 586 | 12% |
| 101Mec | Mech Room | <input type="checkbox"/> | FID | F1x4 Industrial | 2 | 3248 | 2- 32w RSFI T8 EL-LBF | 255 | 2934 | 2- Relamp with 28w 4' RSFI | 2 | <input type="checkbox"/> | 45 | 0.1 | 0.1 | 26 | 23 | 3 | 12% |
| 101Mez | Plumbing / Hydronics La | <input type="checkbox"/> | FWF | F1x4 Wrap | 16 | 3248 | 2- 32w RSFI T8 EL-LBF | 6,240 | 2934 | 2- Relamp with 28w 4' RSFI | 16 | <input type="checkbox"/> | 45 | 0.8 | 0.7 | 5,092 | 4,493 | 599 | 12% |
| 101Stall | Mock-up Stalls | <input type="checkbox"/> | IJC | Jam Jar | 20 | 2015 | 1- 23w CF SI (Screw in) | 2,423 | 9000 | 0- No Action | 20 | <input type="checkbox"/> | 0 | 0.4 | 0.4 | 1,114 | 1,114 | 0 | 0% |
| 101Stall | Mock-up Stalls | <input type="checkbox"/> | IJC | Jam Jar | 20 | 2015 | 1- 23w CF SI (Screw in) | 2,423 | 9000 | 0- No Action | 20 | <input type="checkbox"/> | 0 | 0.4 | 0.4 | 1,114 | 1,114 | 0 | 0% |
| 101U | Hydronic Lab Overhang | <input type="checkbox"/> | FID | F1x4 Industrial | 16 | 3244 | 2- 32w RSFI T8 EL-IS | 3,821 | 2933 | 2- Relamp with 28w 4' RSFI | 16 | <input type="checkbox"/> | 52 | 0.9 | 0.8 | 3,607 | 3,179 | 428 | 12% |
| 102A | Corridor | <input type="checkbox"/> | IXL | LED Exit sign | 1 | 1001 | 1- 4 Watt LED Exit light R | 8,760 | 9000 | 0- No Action | 1 | <input type="checkbox"/> | 0 | 0.0 | 0.0 | 24 | 24 | 0 | 0% |
| 102A | Corridor | <input type="checkbox"/> | FTI | F2x4 Rec | 2 | 3256 | 2- 32w RSFI T8 EL-RS | 4,080 | 2832 | 2- 28w 4' RSFI T8 ES HE E | 2 | <input type="checkbox"/> | 48 | 0.1 | 0.1 | 506 | 392 | 114 | 23% |
| 103 | Women's Washroom | <input type="checkbox"/> | FTI | F2x4 Rec | 1 | 3256 | 2- 32w RSFI T8 EL-RS | 8,760 | 2832 | 2- 28w 4' RSFI T8 ES HE E | 1 | <input type="checkbox"/> | 48 | 0.1 | 0.0 | 543 | 420 | 123 | 23% |
| 103A | Women's Washroom | <input type="checkbox"/> | FCE | F1x4 Cubelight | 1 | 3232 | 1- 32w RSFI T8 EL-RS | 1,530 | 2820 | 1- 28w 4' RSFI T8 ES HE E | 1 | <input type="checkbox"/> | 25 | 0.0 | 0.0 | 47 | 38 | 9 | 19% |
| 103A | Women's Washroom | <input type="checkbox"/> | FTI | F2x4 Rec | 2 | 3256 | 2- 32w RSFI T8 EL-RS | 1,530 | 2832 | 2- 28w 4' RSFI T8 ES HE E | 2 | <input type="checkbox"/> | 48 | 0.1 | 0.1 | 190 | 147 | 43 | 23% |
| 104 | Office | <input type="checkbox"/> | FTK | F2x4 Rec | 1 | 3244 | 4- 32w RSFI T8 EL-IS | 1,840 | 2933 | 2- Relamp with 28w 4' RSFI | 1 | <input type="checkbox"/> | 52 | 0.1 | 0.0 | 109 | 96 | 13 | 12% |
| 105 | Storage | <input type="checkbox"/> | FWF | F1x4 Wrap | 1 | 3248 | 2- 32w RSFI T8 EL-LBF | 2,295 | 2934 | 2- Relamp with 28w 4' RSFI | 1 | <input type="checkbox"/> | 45 | 0.0 | 0.0 | 117 | 103 | 14 | 12% |
| 105 | Storage | <input type="checkbox"/> | FWE | F1x4 Wrap | 4 | 3218 | 1- 32w RSFI T8 EL-LBF S | 2,295 | 2929 | 1- Relamp with 28w 4' RSFI | 4 | <input type="checkbox"/> | 22.5 | 0.1 | 0.1 | 234 | 207 | 28 | 12% |
| 105 | Storage | <input type="checkbox"/> | FWF | F1x4 Wrap | 4 | 3294 | 2- 32w RSFI T8 EL-LBF S | 2,295 | 2937 | 2- Relamp with 28w 4' RSFI | 4 | <input type="checkbox"/> | 43 | 0.2 | 0.2 | 450 | 395 | 55 | 12% |
| 105A | Storage | <input type="checkbox"/> | FWF | F1x4 Wrap | 4 | 3248 | 2- 32w RSFI T8 EL-LBF | 2,295 | 2934 | 2- Relamp with 28w 4' RSFI | 4 | <input type="checkbox"/> | 45 | 0.2 | 0.2 | 468 | 413 | 55 | 12% |
| 106 | Storage | <input type="checkbox"/> | FSE | F4' striplight | 2 | 3208 | 1- 32w RSFI T8 EL-IS | 2,423 | 2926 | 1- Relamp with 28w 4' RSFI | 2 | <input type="checkbox"/> | 26 | 0.1 | 0.0 | 150 | 126 | 24 | 16% |
| 107 | Storage | <input type="checkbox"/> | FTC | F1x4 Rec | 12 | 3222 | 2- 32w RSFI T8 EL-LBF S | 2,423 | 2929 | 1- Relamp with 28w 4' RSFI | 12 | <input type="checkbox"/> | 22.5 | 0.3 | 0.3 | 741 | 654 | 87 | 12% |
| 107 | Storage | <input type="checkbox"/> | FTD | F1x4 Rec | 1 | 3248 | 2- 32w RSFI T8 EL-LBF | 2,423 | 2934 | 2- Relamp with 28w 4' RSFI | 1 | <input type="checkbox"/> | 45 | 0.0 | 0.0 | 124 | 109 | 15 | 12% |
| 107A | Storage | <input type="checkbox"/> | FTC | F1x4 Rec | 1 | 3218 | 1- 32w RSFI T8 EL-LBF S | 1,000 | 2929 | 1- Relamp with 28w 4' RSFI | 1 | <input type="checkbox"/> | 22.5 | 0.0 | 0.0 | 26 | 23 | 3 | 12% |
| 108 | Office | <input type="checkbox"/> | FTK | F2x4 Rec | 1 | 3244 | 4- 32w RSFI T8 EL-IS | 1,000 | 2933 | 2- Relamp with 28w 4' RSFI | 1 | <input type="checkbox"/> | 52 | 0.1 | 0.0 | 59 | 52 | 7 | 12% |
| 109 | Corridor | <input type="checkbox"/> | IXL | LED Exit sign | 1 | 1001 | 1- 4 Watt LED Exit light R | 8,760 | 9000 | 0- No Action | 1 | <input type="checkbox"/> | 0 | 0.0 | 0.0 | 24 | 24 | 0 | 0% |
| 109 | Corridor | <input type="checkbox"/> | FWE | F1x4 Wrap | 2 | 3208 | 1- 32w RSFI T8 EL-IS | 0 | 2926 | 1- Relamp with 28w 4' RSFI | 2 | <input type="checkbox"/> | 26 | 0.1 | 0.0 | 0 | 0 | 0 | 0% |
| 110 | Mechanical Room | <input type="checkbox"/> | ILD | Keyless Lampholder | 3 | 2013 | 1- 20w CF spiral SI (Scre | 255 | 9000 | 0- No Action | 3 | <input type="checkbox"/> | 0 | 0.1 | 0.1 | 15 | 15 | 0 | 0% |

*Controls Cost is for Unadjusted Materials and Labour and is included in the Extended Material and Extended Labour Costs.

Detailed Lighting Retrofit Report

Client Name: BCIT Selected NE Buildings DEAR

Project Num: 2012168



Building Name: Plumbing

Building Code: NE06R

| Room Data | | | Existing Luminaire/Lamp Data | | | | | | Retrofit Data | | | | | | | | | | |
|-----------|----------------------|--------------------------|------------------------------|---------------------------|-----|-----------|-----------------------------|--------------|---------------|-----------------------------|-----|--------------------------|-------------|------------|----------|-------------|----------------|----------------------|------------|
| Room | Room Type | Lock | Type Code | Description | Qty | Lamp Code | Lamp Description | Annual Hours | Lamp Code | Lamp Description | Qty | New Ctrls | Unit (Watt) | Exist (kW) | New (kW) | Exist (kWh) | Retrofit (kWh) | Energy Savings (kWh) | % kWh Save |
| 111 | Compressor | <input type="checkbox"/> | FII | F1x8 Tandem Industri | 2 | 3316 | 4 - 32w RSFI T8 EL-LBF | 8,760 | 2948 | 4 - Relamp with 28w 4' RSFI | 2 | <input type="checkbox"/> | 86 | 0.2 | 0.2 | 1,717 | 1,507 | 210 | 12% |
| 112 | Compressor Lab | <input type="checkbox"/> | FIO | F1x8 Industrial | 13 | 3324 | 6 - 32w RSFI T8 EL-HBF 2 | 3,060 | 2949 | 4 - Relamp with 28w 4' RSFI | 13 | <input type="checkbox"/> | 138 | 1.9 | 1.7 | 6,206 | 5,490 | 716 | 12% |
| 113 | Electrical Room | <input type="checkbox"/> | FII | F1x8 Tandem Industri | 3 | 3316 | 4 - 32w RSFI T8 EL-LBF | 255 | 2948 | 4 - Relamp with 28w 4' RSFI | 3 | <input type="checkbox"/> | 86 | 0.3 | 0.2 | 75 | 66 | 9 | 12% |
| 114 | Demonstration Room | <input type="checkbox"/> | FWF | F1x4 Wrap | 4 | 3256 | 2 - 32w RSFI T8 EL-RS | 2,423 | 2832 | 2 - 28w 4' RSFI T8 ES HE E | 4 | <input type="checkbox"/> | 48 | 0.2 | 0.2 | 601 | 465 | 136 | 23% |
| 114 | Demonstration Room | <input type="checkbox"/> | FWF | F1x4 Wrap | 10 | 3244 | 2 - 32w RSFI T8 EL-IS | 2,423 | 2933 | 2 - Relamp with 28w 4' RSFI | 10 | <input type="checkbox"/> | 52 | 0.6 | 0.5 | 1,429 | 1,260 | 170 | 12% |
| 115 | Gas Lab | <input type="checkbox"/> | FIE | F1x8 SL Industrial | 6 | 3308 | 2 - 32w RSFI T8 EL-IS | 2,423 | 2946 | 4 - Relamp with 28w 4' RSFI | 6 | <input type="checkbox"/> | 98 | 0.6 | 0.6 | 1,628 | 1,424 | 203 | 13% |
| 116 | Storage | <input type="checkbox"/> | FWF | F1x4 Wrap | 1 | 3248 | 2 - 32w RSFI T8 EL-LBF | 2,423 | 2934 | 2 - Relamp with 28w 4' RSFI | 1 | <input type="checkbox"/> | 45 | 0.0 | 0.0 | 124 | 109 | 15 | 12% |
| 117 | Storage | <input type="checkbox"/> | FWF | F1x4 Wrap | 1 | 3248 | 2 - 32w RSFI T8 EL-LBF | 2,423 | 2934 | 2 - Relamp with 28w 4' RSFI | 1 | <input type="checkbox"/> | 45 | 0.0 | 0.0 | 124 | 109 | 15 | 12% |
| 118 | Corridor | <input type="checkbox"/> | FWE | F1x4 Wrap | 2 | 3208 | 1 - 32w RSFI T8 EL-IS | 4,080 | 2926 | 1 - Relamp with 28w 4' RSFI | 2 | <input type="checkbox"/> | 26 | 0.1 | 0.0 | 253 | 212 | 41 | 16% |
| 118 | Corridor | <input type="checkbox"/> | IXL | LED Exit sign | 1 | 1001 | 1 - 4 Watt LED Exit light R | 8,760 | 9000 | 0 - No Action | 2 | <input type="checkbox"/> | 0 | 0.0 | 0.0 | 24 | 48 | -24 | -100% |
| 119 | Storage | <input type="checkbox"/> | FSE | F4' striplight | 2 | 3208 | 1 - 32w RSFI T8 EL-IS | 1,000 | 9000 | 0 - No Action | 2 | <input type="checkbox"/> | 0 | 0.1 | 0.1 | 62 | 62 | 0 | 0% |
| 120 | Office | <input type="checkbox"/> | FTK | F2x4 Rec | 1 | 3244 | 4 - 32w RSFI T8 EL-IS | 1,840 | 2933 | 2 - Relamp with 28w 4' RSFI | 1 | <input type="checkbox"/> | 52 | 0.1 | 0.0 | 109 | 96 | 13 | 12% |
| 121 | Storage | <input type="checkbox"/> | FRE | F4' striplight w/reflecto | 6 | 3210 | 1 - 32w RSFI T8 EL-IS Sh | 2,080 | 2931 | 1 - Relamp with 28w 4' RSFI | 6 | <input type="checkbox"/> | 34.5 | 0.2 | 0.2 | 368 | 431 | -62 | -17% |
| 121 | Storage | <input type="checkbox"/> | FRG | F8' tandem striplight | 8 | 3248 | 2 - 32w RSFI T8 EL-LBF | 2,080 | 2934 | 2 - Relamp with 28w 4' RSFI | 8 | <input type="checkbox"/> | 45 | 0.4 | 0.3 | 849 | 749 | 100 | 12% |
| 122 | Corridor | <input type="checkbox"/> | IXL | LED Exit sign | 1 | 1001 | 1 - 4 Watt LED Exit light R | 8,760 | 9000 | 0 - No Action | 2 | <input type="checkbox"/> | 0 | 0.0 | 0.0 | 24 | 48 | -24 | -100% |
| 122 | Corridor | <input type="checkbox"/> | FWE | F1x4 Wrap | 2 | 3208 | 1 - 32w RSFI T8 EL-IS | 4,080 | 2926 | 1 - Relamp with 28w 4' RSFI | 2 | <input type="checkbox"/> | 26 | 0.1 | 0.0 | 253 | 212 | 41 | 16% |
| 123 | Storage | <input type="checkbox"/> | FSE | F4' striplight | 3 | 3208 | 1 - 32w RSFI T8 EL-IS | 1,000 | 2926 | 1 - Relamp with 28w 4' RSFI | 3 | <input type="checkbox"/> | 26 | 0.1 | 0.1 | 93 | 78 | 15 | 16% |
| 123X | Electrical Closet | <input type="checkbox"/> | FIE | F1x8 SL Industrial | 1 | 3316 | 2 - 32w RSFI T8 EL-LBF | 255 | 2948 | 4 - Relamp with 28w 4' RSFI | 1 | <input type="checkbox"/> | 86 | 0.0 | 0.0 | 25 | 22 | 3 | 12% |
| 124 | Storage | <input type="checkbox"/> | FIJ | F2x4 Industrial | 5 | 3244 | 4 - 32w RSFI T8 EL-IS | 1,000 | 2933 | 2 - Relamp with 28w 4' RSFI | 5 | <input type="checkbox"/> | 52 | 0.1 | 0.1 | 295 | 260 | 35 | 12% |
| 124 | Empty Room | <input type="checkbox"/> | FRE | F4' striplight w/reflecto | 1 | 3208 | 1 - 32w RSFI T8 EL-IS | 51 | 2926 | 1 - Relamp with 28w 4' RSFI | 1 | <input type="checkbox"/> | 26 | 0.0 | 0.0 | 2 | 1 | 0 | 16% |
| 125 | Office | <input type="checkbox"/> | FTK | F2x4 Rec | 1 | 3244 | 4 - 32w RSFI T8 EL-IS | 1,840 | 2933 | 2 - Relamp with 28w 4' RSFI | 1 | <input type="checkbox"/> | 52 | 0.1 | 0.0 | 109 | 96 | 13 | 12% |
| 126 | Corridor | <input type="checkbox"/> | FWE | F1x4 Wrap | 2 | 3208 | 1 - 32w RSFI T8 EL-IS | 4,080 | 9000 | 0 - No Action | 2 | <input type="checkbox"/> | 0 | 0.1 | 0.1 | 253 | 253 | 0 | 0% |
| 126 | Corridor | <input type="checkbox"/> | IXL | LED Exit sign | 1 | 1001 | 1 - 4 Watt LED Exit light R | 8,760 | 9000 | 0 - No Action | 1 | <input type="checkbox"/> | 0 | 0.0 | 0.0 | 24 | 24 | 0 | 0% |
| 127 | Storage | <input type="checkbox"/> | FSE | F4' striplight | 2 | 3208 | 1 - 32w RSFI T8 EL-IS | 255 | 2926 | 1 - Relamp with 28w 4' RSFI | 2 | <input type="checkbox"/> | 26 | 0.1 | 0.0 | 16 | 13 | 3 | 16% |
| 150 | Model House plumbing | <input type="checkbox"/> | ILD | Keyless Lampholder | 18 | 1153 | 1 - 100w Inc A19 | 1,530 | 9000 | 0 - No Action | 18 | <input type="checkbox"/> | 0 | 1.7 | 1.7 | 2,754 | 2,754 | 0 | 0% |
| 204 | Resource Room | <input type="checkbox"/> | FBL | F2x4 Box | 2 | 3256 | 2 - 32w RSFI T8 EL-RS | 2,990 | 2832 | 2 - 28w 4' RSFI T8 ES HE E | 2 | <input type="checkbox"/> | 48 | 0.1 | 0.1 | 371 | 287 | 84 | 23% |
| 204 | Resource Room | <input type="checkbox"/> | FWF | F1x4 Wrap | 9 | 3244 | 2 - 32w RSFI T8 EL-IS | 2,990 | 2933 | 2 - Relamp with 28w 4' RSFI | 6 | <input type="checkbox"/> | 52 | 0.5 | 0.3 | 1,588 | 933 | 655 | 41% |
| 204A | Storage | <input type="checkbox"/> | ILD | Keyless Lampholder | 1 | 2015 | 1 - 23w CF SI (Screw in) | 520 | 9000 | 0 - No Action | 1 | <input type="checkbox"/> | 0 | 0.0 | 0.0 | 12 | 12 | 0 | 0% |
| 205 | Men's Changeroom | <input type="checkbox"/> | FSG | F8' tandem striplight | 3 | 3256 | 2 - 32w RSFI T8 EL-RS | 2,805 | 2832 | 2 - 28w 4' RSFI T8 ES HE E | 3 | <input type="checkbox"/> | 48 | 0.2 | 0.1 | 522 | 404 | 118 | 23% |
| 206 | Men's Washroom | <input type="checkbox"/> | FSG | F8' tandem striplight | 3 | 3256 | 2 - 32w RSFI T8 EL-RS | 2,805 | 2832 | 2 - 28w 4' RSFI T8 ES HE E | 3 | <input type="checkbox"/> | 48 | 0.2 | 0.1 | 522 | 404 | 118 | 23% |
| 207 | Lunch Room | <input type="checkbox"/> | FBL | F2x4 Box | 2 | 3256 | 2 - 32w RSFI T8 EL-RS | 2,990 | 2832 | 2 - 28w 4' RSFI T8 ES HE E | 2 | <input type="checkbox"/> | 48 | 0.1 | 0.1 | 371 | 287 | 84 | 23% |
| 207 | Lunch Room | <input type="checkbox"/> | FWF | F1x4 Wrap | 9 | 3244 | 2 - 32w RSFI T8 EL-IS | 2,990 | 2933 | 2 - Relamp with 28w 4' RSFI | 6 | <input type="checkbox"/> | 52 | 0.5 | 0.3 | 1,588 | 933 | 655 | 41% |
| 207A | Storage | <input type="checkbox"/> | ILD | Keyless Lampholder | 2 | 2015 | 1 - 23w CF SI (Screw in) | 520 | 9000 | 0 - No Action | 2 | <input type="checkbox"/> | 0 | 0.0 | 0.0 | 24 | 24 | 0 | 0% |
| 209 | Corridor | <input type="checkbox"/> | FWE | F1x4 Wrap | 6 | 3208 | 1 - 32w RSFI T8 EL-IS | 4,080 | 2926 | 1 - Relamp with 28w 4' RSFI | 6 | <input type="checkbox"/> | 26 | 0.2 | 0.1 | 759 | 636 | 122 | 16% |

*Controls Cost is for Unadjusted Materials and Labour and is included in the Extended Material and Extended Labour Costs.

Detailed Lighting Retrofit Report

Client Name: BCIT Selected NE Buildings DEAR

Project Num: 2012168



Building Name: Plumbing

Building Code: NE06R

| Room Data | | | Existing Luminaire/Lamp Data | | | | | | Retrofit Data | | | | | | | | | | |
|---|------------------------|--------------------------|------------------------------|--------------------|-----|-----------|-----------------------------|--------------|---------------|-----------------------------|-----|--------------------------|-------------|------------|----------|-------------|----------------|----------------------|------------|
| Room | Room Type | Lock | Type Code | Description | Qty | Lamp Code | Lamp Description | Annual Hours | Lamp Code | Lamp Description | Qty | New Ctrls | Unit (Watt) | Exist (kW) | New (kW) | Exist (kWh) | Retrofit (kWh) | Energy Savings (kWh) | % kWh Save |
| 209 | Corridor | <input type="checkbox"/> | IXL | LED Exit sign | 2 | 1001 | 1 - 4 Watt LED Exit light R | 8,760 | 9000 | 0 - No Action | 2 | <input type="checkbox"/> | 0 | 0.0 | 0.0 | 48 | 48 | 0 | 0% |
| 218 | Corridor | <input type="checkbox"/> | FWE | F1x4 Wrap | 6 | 3208 | 1 - 32w RSFI T8 EL-IS | 4,080 | 2926 | 1 - Relamp with 28w 4' RSFI | 6 | <input type="checkbox"/> | 26 | 0.2 | 0.1 | 759 | 636 | 122 | 16% |
| 218 | Corridor | <input type="checkbox"/> | IXL | LED Exit sign | 2 | 1001 | 1 - 4 Watt LED Exit light R | 8,760 | 9000 | 0 - No Action | 2 | <input type="checkbox"/> | 0 | 0.0 | 0.0 | 48 | 48 | 0 | 0% |
| 220 | Classroom | <input type="checkbox"/> | FBL | F2x4 Box | 2 | 3256 | 2 - 32w RSFI T8 EL-RS | 2,988 | 2832 | 2 - 28w 4' RSFI T8 ES HE E | 2 | <input type="checkbox"/> | 48 | 0.1 | 0.1 | 370 | 287 | 84 | 23% |
| 220 | Classroom | <input type="checkbox"/> | FWF | F1x4 Wrap | 15 | 3256 | 2 - 32w RSFI T8 EL-RS | 2,000 | 2832 | 2 - 28w 4' RSFI T8 ES HE E | 15 | <input type="checkbox"/> | 48 | 0.9 | 0.7 | 1,860 | 1,440 | 420 | 23% |
| 220A | Office | <input type="checkbox"/> | FBG | F1x4 Box | 2 | 3256 | 2 - 32w RSFI T8 EL-RS | 1,840 | 2832 | 2 - 28w 4' RSFI T8 ES HE E | 2 | <input type="checkbox"/> | 48 | 0.1 | 0.1 | 228 | 177 | 52 | 23% |
| 222 | Classroom | <input type="checkbox"/> | FBL | F2x4 Box | 2 | 3256 | 2 - 32w RSFI T8 EL-RS | 2,000 | 2832 | 2 - 28w 4' RSFI T8 ES HE E | 2 | <input type="checkbox"/> | 48 | 0.1 | 0.1 | 248 | 192 | 56 | 23% |
| 222 | Classroom | <input type="checkbox"/> | FWF | F1x4 Wrap | 15 | 3256 | 2 - 32w RSFI T8 EL-RS | 2,000 | 2832 | 2 - 28w 4' RSFI T8 ES HE E | 15 | <input type="checkbox"/> | 48 | 0.9 | 0.7 | 1,860 | 1,440 | 420 | 23% |
| 222A | Office | <input type="checkbox"/> | FWF | F1x4 Wrap | 2 | 3248 | 2 - 32w RSFI T8 EL-LBF | 1,840 | 2934 | 2 - Relamp with 28w 4' RSFI | 2 | <input type="checkbox"/> | 45 | 0.1 | 0.1 | 188 | 166 | 22 | 12% |
| 300 | Upper Storage | <input type="checkbox"/> | FIO | F1x8 Industrial | 10 | 3324 | 6 - 32w RSFI T8 EL-HBF 2 | 910 | 2949 | 4 - Relamp with 28w 4' RSFI | 10 | <input type="checkbox"/> | 138 | 1.5 | 1.3 | 1,420 | 1,256 | 164 | 12% |
| Ext. | Plumbing Cutting and W | <input type="checkbox"/> | FSE | F4' striplight | 20 | 3208 | 1 - 32w RSFI T8 EL-IS | 1,840 | 9000 | 0 - No Action | 1 | <input type="checkbox"/> | 0 | 0.6 | 0.0 | 1,141 | 57 | 1,084 | 95% |
| Ext. | Ope Storage | <input type="checkbox"/> | FIG | F1x8 HO Industrial | 2 | 3324 | 2 - 32w RSFI T8 EL-HBF 2 | 8,760 | 9000 | 0 - No Action | 2 | <input type="checkbox"/> | 0 | 0.3 | 0.3 | 2,733 | 2,733 | 0 | 0% |
| S202 | Stairwells | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3208 | 1 - 32w RSFI T8 EL-IS | 4,420 | 2926 | 1 - Relamp with 28w 4' RSFI | 1 | <input type="checkbox"/> | 26 | 0.0 | 0.0 | 137 | 115 | 22 | 16% |
| S209 | Stairwell | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3208 | 1 - 32w RSFI T8 EL-IS | 4,080 | 2926 | 1 - Relamp with 28w 4' RSFI | 1 | <input type="checkbox"/> | 26 | 0.0 | 0.0 | 126 | 106 | 20 | 16% |
| S226 | Stairwell | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3208 | 1 - 32w RSFI T8 EL-IS | 4,080 | 2926 | 1 - Relamp with 28w 4' RSFI | 1 | <input type="checkbox"/> | 26 | 0.0 | 0.0 | 126 | 106 | 20 | 16% |
| <i>Existing Energy Summary for Building Plumbing:</i> | | | | | 468 | | | | | | 445 | | | 33 | 28 | 107,357 | 91,776 | 15,581 | 15% |

*Controls Cost is for Unadjusted Materials and Labour and is included in the Extended Material and Extended Labour Costs.

Detailed Lighting Retrofit Report

Client Name: BCIT Selected NE Buildings DEAR
 Building Name: Welding

Project Num: 2012168
 Building Code: NE08R



| Room Data | | | Existing Luminaire/Lamp Data | | | | | | Retrofit Data | | | | | | | | | | |
|-----------|----------------------|--------------------------|------------------------------|----------------------|-----|-----------|-----------------------------|--------------|---------------|-----------------------------|-----|-------------------------------------|-------------|------------|----------|-------------|----------------|----------------------|------------|
| Room | Room Type | Lock | Type Code | Description | Qty | Lamp Code | Lamp Description | Annual Hours | Lamp Code | Lamp Description | Qty | New Ctrls | Unit (Watt) | Exist (kW) | New (kW) | Exist (kWh) | Retrofit (kWh) | Energy Savings (kWh) | % kWh Save |
| 101 | Mech Room | <input type="checkbox"/> | FID | F1x4 Industrial | 2 | 3248 | 2 - 32w RSFI T8 EL-LBF | 51 | 2934 | 2 - Relamp with 28w 4' RSFI | 2 | <input type="checkbox"/> | 45 | 0.0 | 0.0 | 5 | 5 | 1 | 12% |
| 102 | Locker Room | <input type="checkbox"/> | FWF | F1x4 Wrap | 2 | 3248 | 2 - 32w RSFI T8 EL-LBF | 4,080 | 2934 | 2 - Relamp with 28w 4' RSFI | 2 | <input type="checkbox"/> | 45 | 0.1 | 0.1 | 416 | 367 | 49 | 12% |
| 103 | Classroom (Room 107) | <input type="checkbox"/> | FWF | F1x4 Wrap | 19 | 3248 | 2 - 32w RSFI T8 EL-LBF | 2,988 | 2934 | 2 - Relamp with 28w 4' RSFI | 8 | <input type="checkbox"/> | 45 | 0.9 | 0.3 | 2,895 | 1,076 | 1,820 | 63% |
| 103 | Classroom (Room 107) | <input type="checkbox"/> | FWF | F1x4 Wrap | 6 | 3248 | 2 - 32w RSFI T8 EL-LBF | 2,988 | 2934 | 2 - Relamp with 28w 4' RSFI | 4 | <input type="checkbox"/> | 45 | 0.3 | 0.2 | 914 | 538 | 376 | 41% |
| 104 | Corridor | <input type="checkbox"/> | FCE | F1x4 Cubelight | 7 | 3208 | 2 - 32w RSFI T8 EL-IS | 8,760 | 2926 | 1 - Relamp with 28w 4' RSFI | 7 | <input type="checkbox"/> | 26 | 0.2 | 0.2 | 1,901 | 1,594 | 307 | 16% |
| 104 | Corridor | <input type="checkbox"/> | VCA | Cylinder | 2 | 4002 | 1 - 100w MV DX | 3,927 | 9100 | 0 - Remove and cover | 2 | <input type="checkbox"/> | 0.0001 | 0.2 | 0.0 | 982 | 0 | 982 | 100% |
| 104 | Corridor | <input type="checkbox"/> | FCE | F1x4 Cubelight | 50 | 3208 | 2 - 32w RSFI T8 EL-IS | 3,927 | 2926 | 1 - Relamp with 28w 4' RSFI | 50 | <input checked="" type="checkbox"/> | 26 | 1.5 | 1.2 | 6,087 | 3,829 | 2,258 | 37% |
| 104 | Corridor | <input type="checkbox"/> | IXL | LED Exit sign | 5 | 1001 | 1 - 4 Watt LED Exit light R | 8,760 | 9000 | 0 - No Action | 5 | <input type="checkbox"/> | 0 | 0.0 | 0.0 | 121 | 121 | 0 | 0% |
| 106 | Women's Washroom | <input type="checkbox"/> | FWF | F1x4 Wrap | 3 | 3248 | 2 - 32w RSFI T8 EL-LBF | 8,760 | 2934 | 2 - Relamp with 28w 4' RSFI | 3 | <input type="checkbox"/> | 45 | 0.1 | 0.1 | 1,340 | 1,183 | 158 | 12% |
| 107 | Student Lunch Room | <input type="checkbox"/> | FSE | F4' striplight | 5 | 3208 | 1 - 32w RSFI T8 EL-IS | 3,570 | 2926 | 1 - Relamp with 28w 4' RSFI | 5 | <input type="checkbox"/> | 26 | 0.1 | 0.1 | 553 | 464 | 89 | 16% |
| 107 | Student Lunch Room | <input type="checkbox"/> | IXL | LED Exit sign | 2 | 1008 | 2 - 2 Watt LED Lightbar | 8,760 | 9000 | 0 - No Action | 2 | <input type="checkbox"/> | 0 | 0.0 | 0.0 | 35 | 35 | 0 | 0% |
| 108 | Men's Washroom | <input type="checkbox"/> | FWF | F1x4 Wrap | 5 | 3248 | 2 - 32w RSFI T8 EL-LBF | 4,335 | 2934 | 2 - Relamp with 28w 4' RSFI | 5 | <input type="checkbox"/> | 45 | 0.2 | 0.2 | 1,105 | 975 | 130 | 12% |
| 108 | Men's Washroom | <input type="checkbox"/> | FVD | F1x4 Vapour Resistan | 1 | 3248 | 2 - 32w RSFI T8 EL-LBF | 4,335 | 2934 | 2 - Relamp with 28w 4' RSFI | 1 | <input type="checkbox"/> | 45 | 0.0 | 0.0 | 221 | 195 | 26 | 12% |
| 110 | Welding | <input type="checkbox"/> | FGF | F2x4 Gym | 12 | 3999 | 1 - 54w RSFI HO T5 EL-P | 3,375 | 3881 | 4 - Relamp with 51w RSFI H | 12 | <input type="checkbox"/> | 228 | 2.7 | 2.6 | 9,720 | 9,234 | 486 | 5% |
| 111 | Welding | <input type="checkbox"/> | FSE | F4' striplight | 8 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 8 | <input type="checkbox"/> | 57 | 0.5 | 0.4 | 1,991 | 1,860 | 131 | 7% |
| 111A | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 111B | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 111C | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 111D | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 111E | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 111F | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 111G | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 111H | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 111I | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 111J | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 111K | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 111L | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 111M | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 111N | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 111O | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 111P | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 112 | Welding | <input type="checkbox"/> | FSE | F4' striplight | 8 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 8 | <input type="checkbox"/> | 57 | 0.5 | 0.4 | 1,991 | 1,860 | 131 | 7% |
| 112A | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 112B | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |

*Controls Cost is for Unadjusted Materials and Labour and is included in the Extended Material and Extended Labour Costs.

Detailed Lighting Retrofit Report

Client Name: BCIT Selected NE Buildings DEAR

Building Name: Welding

Project Num: 2012168

Building Code: NE08R



| Room Data | | | Existing Luminaire/Lamp Data | | | | | | Retrofit Data | | | | | | | | | | |
|-----------|---------------|--------------------------|------------------------------|----------------|-----|-----------|-------------------------|--------------|---------------|----------------------------|-----|--------------------------|-------------|------------|----------|-------------|----------------|----------------------|------------|
| Room | Room Type | Lock | Type Code | Description | Qty | Lamp Code | Lamp Description | Annual Hours | Lamp Code | Lamp Description | Qty | New Ctrls | Unit (Watt) | Exist (kW) | New (kW) | Exist (kWh) | Retrofit (kWh) | Energy Savings (kWh) | % kWh Save |
| 112C | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 112D | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 112E | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 112F | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 112G | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 112H | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 112I | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 112J | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 112K | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 112L | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 112M | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 112N | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 112O | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 112P | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 113 | Welding | <input type="checkbox"/> | FSE | F4' striplight | 8 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 8 | <input type="checkbox"/> | 57 | 0.5 | 0.4 | 1,991 | 1,860 | 131 | 7% |
| 113A | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 113B | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 113C | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 113D | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 113E | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 113F | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 113G | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 113H | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 113I | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 113J | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 113K | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 113L | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 113M | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 113N | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 113O | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 113P | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 114 | Welding | <input type="checkbox"/> | FSE | F4' striplight | 8 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 8 | <input type="checkbox"/> | 57 | 0.5 | 0.4 | 1,991 | 1,860 | 131 | 7% |
| 114A | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 114B | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |

*Controls Cost is for Unadjusted Materials and Labour and is included in the Extended Material and Extended Labour Costs.

Detailed Lighting Retrofit Report

Client Name: BCIT Selected NE Buildings DEAR

Building Name: Welding

Project Num: 2012168

Building Code: NE08R



| Room Data | | | Existing Luminaire/Lamp Data | | | | | | Retrofit Data | | | | | | | | | | |
|-----------|----------------|--------------------------|------------------------------|-----------------|-----|-----------|-----------------------------|--------------|---------------|----------------------------|-----|--------------------------|-------------|------------|----------|-------------|----------------|----------------------|------------|
| Room | Room Type | Lock | Type Code | Description | Qty | Lamp Code | Lamp Description | Annual Hours | Lamp Code | Lamp Description | Qty | New Ctrls | Unit (Watt) | Exist (kW) | New (kW) | Exist (kWh) | Retrofit (kWh) | Energy Savings (kWh) | % kWh Save |
| 114C | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 114D | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 114E | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 114F | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 114G | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 114H | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 114I | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 114J | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 114K | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 114L | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 114M | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 114N | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 114O | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 114P | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 115 | Welding | <input type="checkbox"/> | FID | F1x4 Industrial | 8 | 3248 | 2 - 32w RSFI T8 EL-LBF | 4,080 | 9000 | 0 - No Action | 8 | <input type="checkbox"/> | 0 | 0.4 | 0.4 | 1,665 | 1,665 | 0 | 0% |
| 115A | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 115B | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 115C | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 115D | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 115E | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 115F | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 115G | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 115H | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 115I | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 115J | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 115K | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 115L | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 115M | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 115N | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 115O | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 115P | Welding Booth | <input type="checkbox"/> | FSE | F4' striplight | 1 | 3908 | 1 - 54w RSFI HO T5 EL-P | 4,080 | 3888 | 1 - Relamp with 51w RSFI H | 1 | <input type="checkbox"/> | 57 | 0.1 | 0.1 | 249 | 233 | 16 | 7% |
| 116 | Welding Booths | <input type="checkbox"/> | IXL | LED Exit sign | 2 | 1001 | 1 - 4 Watt LED Exit light R | 8,760 | 9000 | 0 - No Action | 2 | <input type="checkbox"/> | 0 | 0.0 | 0.0 | 48 | 48 | 0 | 0% |
| 116 | Welding Booths | <input type="checkbox"/> | FGF | F2x4 Gym | 10 | 3999 | 4 - 54w RSFI HO T5 EL-P | 4,080 | 3881 | 4 - Relamp with 51w RSFI H | 10 | <input type="checkbox"/> | 228 | 2.3 | 2.2 | 9,792 | 9,302 | 490 | 5% |
| 117 | Corridor | <input type="checkbox"/> | FGF | F2x4 Gym | 12 | 3999 | 4 - 54w RSFI HO T5 EL-P | 4,080 | 3881 | 4 - Relamp with 51w RSFI H | 12 | <input type="checkbox"/> | 228 | 2.7 | 2.6 | 11,750 | 11,163 | 588 | 5% |

*Controls Cost is for Unadjusted Materials and Labour and is included in the Extended Material and Extended Labour Costs.

Detailed Lighting Retrofit Report

Client Name: BCIT Selected NE Buildings DEAR

Building Name: Welding

Project Num: 2012168

Building Code: NE08R



| Room Data | | | Existing Luminaire/Lamp Data | | | | | | Retrofit Data | | | | | | | | | | |
|--|-------------------------|--------------------------|------------------------------|---------------------------|-----|-----------|-----------------------------|--------------|---------------|-----------------------------|-----|--------------------------|-------------|------------|----------|-------------|----------------|----------------------|------------|
| Room | Room Type | Lock | Type Code | Description | Qty | Lamp Code | Lamp Description | Annual Hours | Lamp Code | Lamp Description | Qty | New Ctrls | Unit (Watt) | Exist (kW) | New (kW) | Exist (kWh) | Retrofit (kWh) | Energy Savings (kWh) | % kWh Save |
| 117 | Corridor | <input type="checkbox"/> | IXL | LED Exit sign | 1 | 1001 | 1 - 4 Watt LED Exit light R | 8,760 | 9000 | 0 - No Action | 1 | <input type="checkbox"/> | 0 | 0.0 | 0.0 | 24 | 24 | 0 | 0% |
| 117B | Stairway | <input type="checkbox"/> | IXL | LED Exit sign | 1 | 1001 | 1 - 4 Watt LED Exit light R | 8,760 | 9000 | 0 - No Action | 1 | <input type="checkbox"/> | 0 | 0.0 | 0.0 | 24 | 24 | 0 | 0% |
| 117C | Corridor | <input type="checkbox"/> | IXL | LED Exit sign | 1 | 1001 | 1 - 4 Watt LED Exit light R | 8,760 | 9000 | 0 - No Action | 1 | <input type="checkbox"/> | 0 | 0.0 | 0.0 | 24 | 24 | 0 | 0% |
| 117C | Corridor | <input type="checkbox"/> | FGF | F2x4 Gym | 4 | 3999 | 4 - 54w RSFI HO T5 EL-P | 4,080 | 3881 | 4 - Relamp with 51w RSFI H | 4 | <input type="checkbox"/> | 228 | 0.9 | 0.9 | 3,917 | 3,721 | 196 | 5% |
| 118 | Tool Crib/Storage | <input type="checkbox"/> | FID | F1x4 Industrial | 11 | 3244 | 2 - 32w RSFI T8 EL-IS | 4,080 | 2933 | 2 - Relamp with 28w 4' RSFI | 6 | <input type="checkbox"/> | 52 | 0.6 | 0.3 | 2,648 | 1,273 | 1,375 | 52% |
| 118 | Tool Crib/Storage | <input type="checkbox"/> | FII | F1x8 Tandem Industri | 4 | 3309 | 4 - 32w RSFI T8 EL-IS 2& | 4,080 | 2945 | 4 - Relamp with 28w 4' RSFI | 6 | <input type="checkbox"/> | 104 | 0.4 | 0.6 | 1,926 | 2,546 | -620 | -32% |
| 118A | Tool Crib Cage | <input type="checkbox"/> | FBF | F1x4 Box | 2 | 3208 | 1 - 32w RSFI T8 EL-IS | 1,040 | 2926 | 1 - Relamp with 28w 4' RSFI | 2 | <input type="checkbox"/> | 26 | 0.0 | 0.0 | 64 | 54 | 10 | 16% |
| 118M | Mezzanine Storage | <input type="checkbox"/> | CDH | Downlight | 9 | 2314 | 1 - 26w quad CF | 2,880 | 1836 | 1 - 15w LED Downlight Conv | 9 | <input type="checkbox"/> | 15 | 0.5 | 0.1 | 1,503 | 389 | 1,115 | 74% |
| 118M | Mezzanine Storage | <input type="checkbox"/> | FID | F1x4 Industrial | 17 | 3244 | 2 - 32w RSFI T8 EL-IS | 2,880 | 2933 | 2 - Relamp with 28w 4' RSFI | 17 | <input type="checkbox"/> | 52 | 1.0 | 0.8 | 2,889 | 2,546 | 343 | 12% |
| 118M | Mezzanine Storage | <input type="checkbox"/> | FID | F1x4 Industrial | 2 | 3244 | 1 - 32w RSFI T8 EL-IS | 8,760 | 2933 | 2 - Relamp with 28w 4' RSFI | 2 | <input type="checkbox"/> | 52 | 0.1 | 0.1 | 1,034 | 911 | 123 | 12% |
| 118M | Mezzanine Storage | <input type="checkbox"/> | FID | F1x4 Industrial | 5 | 3244 | 1 - 32w RSFI T8 EL-IS | 2,880 | 2933 | 2 - Relamp with 28w 4' RSFI | 5 | <input type="checkbox"/> | 52 | 0.3 | 0.2 | 850 | 749 | 101 | 12% |
| 118M | Mezzanine Storage | <input type="checkbox"/> | FID | F1x4 Industrial | 2 | 3244 | 1 - 32w RSFI T8 EL-IS | 460 | 2933 | 2 - Relamp with 28w 4' RSFI | 2 | <input type="checkbox"/> | 52 | 0.0 | 0.0 | 54 | 48 | 6 | 12% |
| 118M | Mezzanine Storage | <input type="checkbox"/> | FID | F1x4 Industrial | 2 | 3244 | 1 - 32w RSFI T8 EL-IS | 1,440 | 2933 | 2 - Relamp with 28w 4' RSFI | 2 | <input type="checkbox"/> | 52 | 0.1 | 0.1 | 170 | 150 | 20 | 12% |
| 118M | Mezzanine Storage | <input type="checkbox"/> | IXL | LED Exit sign | 1 | 1008 | 1 - 2 Watt LED Lightbar | 8,760 | 9000 | 0 - No Action | 1 | <input type="checkbox"/> | 0 | 0.0 | 0.0 | 18 | 18 | 0 | 0% |
| 119 | Gas Storage | <input type="checkbox"/> | FID | F1x4 Industrial | 3 | 3248 | 2 - 32w RSFI T8 EL-LBF | 4,420 | 2934 | 2 - Relamp with 28w 4' RSFI | 3 | <input type="checkbox"/> | 45 | 0.1 | 0.1 | 676 | 597 | 80 | 12% |
| 120 | Gas Storage | <input type="checkbox"/> | FID | F1x4 Industrial | 3 | 3248 | 2 - 32w RSFI T8 EL-LBF | 4,420 | 2934 | 2 - Relamp with 28w 4' RSFI | 3 | <input type="checkbox"/> | 45 | 0.1 | 0.1 | 676 | 597 | 80 | 12% |
| 121 | Soldering | <input type="checkbox"/> | FGF | F2x4 Gym | 2 | 3999 | 4 - 54w RSFI HO T5 EL-P | 4,080 | 3881 | 4 - Relamp with 51w RSFI H | 2 | <input type="checkbox"/> | 228 | 0.5 | 0.4 | 1,958 | 1,860 | 98 | 5% |
| 122 | Grinding | <input type="checkbox"/> | FGF | F2x4 Gym | 4 | 3999 | 4 - 54w RSFI HO T5 EL-P | 4,080 | 3881 | 4 - Relamp with 51w RSFI H | 4 | <input type="checkbox"/> | 228 | 0.9 | 0.9 | 3,917 | 3,721 | 196 | 5% |
| 123 | Electrical Room | <input type="checkbox"/> | FIE | F1x8 SL Industrial | 1 | 3316 | 2 - 32w RSFI T8 EL-LBF | 255 | 2948 | 4 - Relamp with 28w 4' RSFI | 1 | <input type="checkbox"/> | 86 | 0.0 | 0.0 | 25 | 22 | 3 | 12% |
| 124 | Electrical Room | <input type="checkbox"/> | FRF | F4' striplight w/reflecto | 1 | 3248 | 2 - 32w RSFI T8 EL-LBF | 255 | 2934 | 2 - Relamp with 28w 4' RSFI | 1 | <input type="checkbox"/> | 45 | 0.0 | 0.0 | 13 | 11 | 2 | 12% |
| 212 | Fan Room | <input type="checkbox"/> | FID | F1x4 Industrial | 7 | 3248 | 2 - 32w RSFI T8 EL-LBF | 255 | 2934 | 2 - Relamp with 28w 4' RSFI | 7 | <input type="checkbox"/> | 45 | 0.1 | 0.1 | 91 | 80 | 11 | 12% |
| 213 | Fan Room | <input type="checkbox"/> | FID | F1x4 Industrial | 7 | 3248 | 2 - 32w RSFI T8 EL-LBF | 255 | 2934 | 2 - Relamp with 28w 4' RSFI | 7 | <input type="checkbox"/> | 45 | 0.1 | 0.1 | 91 | 80 | 11 | 12% |
| 214 | Fan Room | <input type="checkbox"/> | FID | F1x4 Industrial | 7 | 3248 | 2 - 32w RSFI T8 EL-LBF | 255 | 2934 | 2 - Relamp with 28w 4' RSFI | 7 | <input type="checkbox"/> | 45 | 0.1 | 0.1 | 91 | 80 | 11 | 12% |
| Ext. | Cutting Porch | <input type="checkbox"/> | MHG | High / Low Bay | 6 | 5308 | 1 - 320w PS MH | 8,760 | 1087 | 1 - 270w LED HB NEW | 6 | <input type="checkbox"/> | 270 | 2.1 | 1.5 | 19,342 | 14,191 | 5,151 | 27% |
| Ext. E. | East exterior lighting. | <input type="checkbox"/> | MFE | Floodlight | 2 | 5010 | 1 - 175w MH | 8,760 | 1091 | 1 - 135w LED FL or Box NE | 2 | <input type="checkbox"/> | 135 | 0.4 | 0.3 | 3,679 | 2,365 | 1,314 | 36% |
| Ext. E. | East exterior lighting. | <input type="checkbox"/> | MCA | Cylinder | 2 | 5004 | 1 - 70w MH | 8,760 | 1876 | 1 - 35w LED Downlight Conv | 2 | <input type="checkbox"/> | 35 | 0.2 | 0.1 | 1,577 | 613 | 964 | 61% |
| Ext. E. | East exterior lighting. | <input type="checkbox"/> | VCA | Cylinder | 2 | 2412 | 1 - 42w triple CF | 8,760 | 1860 | 1 - 25w LED Downlight Conv | 2 | <input type="checkbox"/> | 25 | 0.1 | 0.0 | 841 | 438 | 403 | 48% |
| Ext. N. | North Exterior lighting | <input type="checkbox"/> | HHD | High / Low Bay | 1 | 6006 | 1 - 100w HPS | 8,760 | 9000 | 0 - No Action | 1 | <input type="checkbox"/> | 0 | 0.1 | 0.1 | 1,139 | 1,139 | 0 | 0% |
| Ext.X1 | Cutting Porch | <input type="checkbox"/> | MFE | Floodlight | 2 | 5010 | 1 - 175w MH | 4,420 | 1091 | 1 - 135w LED FL or Box NE | 2 | <input type="checkbox"/> | 135 | 0.4 | 0.3 | 1,856 | 1,193 | 663 | 36% |
| Ext.X1 | Cutting Porch | <input type="checkbox"/> | VCA | Cylinder | 2 | 2412 | 1 - 42w triple CF | 2,423 | 1860 | 1 - 25w LED Downlight Conv | 2 | <input type="checkbox"/> | 25 | 0.1 | 0.0 | 233 | 121 | 111 | 48% |
| Existing Energy Summary for Building Welding: | | | | | 379 | | | | | | 363 | | | 28 | 24 | 128,776 | 107,427 | 21,350 | 17% |

*Controls Cost is for Unadjusted Materials and Labour and is included in the Extended Material and Extended Labour Costs.