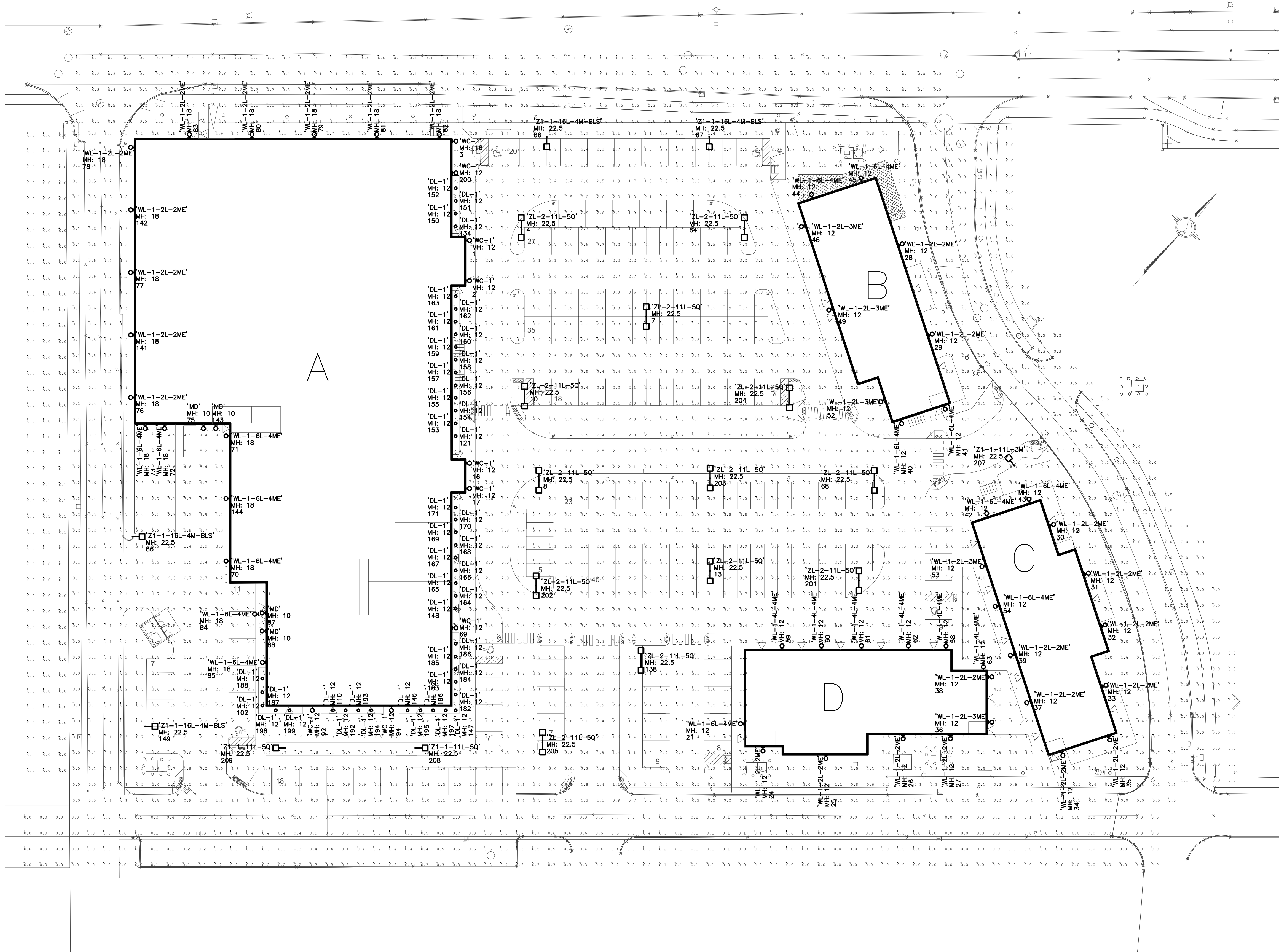




SITE PLAN  
SCALE: 1:400

REVISIONS

| # | DATE                           |
|---|--------------------------------|
| 1 | ISSUED FOR S.P.A. OCT.27/23    |
| 2 | 3RD STAGE PRECONSULT FEB.12/24 |
|   |                                |
|   |                                |
|   |                                |
|   |                                |
|   |                                |
|   |                                |



GENERAL NOTES:  
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THE CONTRACTORS SHALL CHECK AND VERIFY ALL DIMENSIONS ON THE SITE AND REPORT ANY DISCREPANCY TO THE ENGINEER.  
DO NOT SCALE THE DRAWING.  
THE CONTRACTOR WORKING FROM DRAWINGS NOT SPECIFICALLY MARKED "FOR CONSTRUCTION" MUST ASSUME FULL RESPONSIBILITY AND BEAR COSTS FOR ANY CORRECTIONS OR DAMAGES RESULTING FROM THIS WORK.



PROJECT  
PROPOSED COMMERCIAL  
DEVELOPMENT  
CAMPEAU DRIVE &  
PALLADIUM DRIVE  
OTTAWA, ONTARIO

DRAWING  
PHOTOMETRIC PLAN

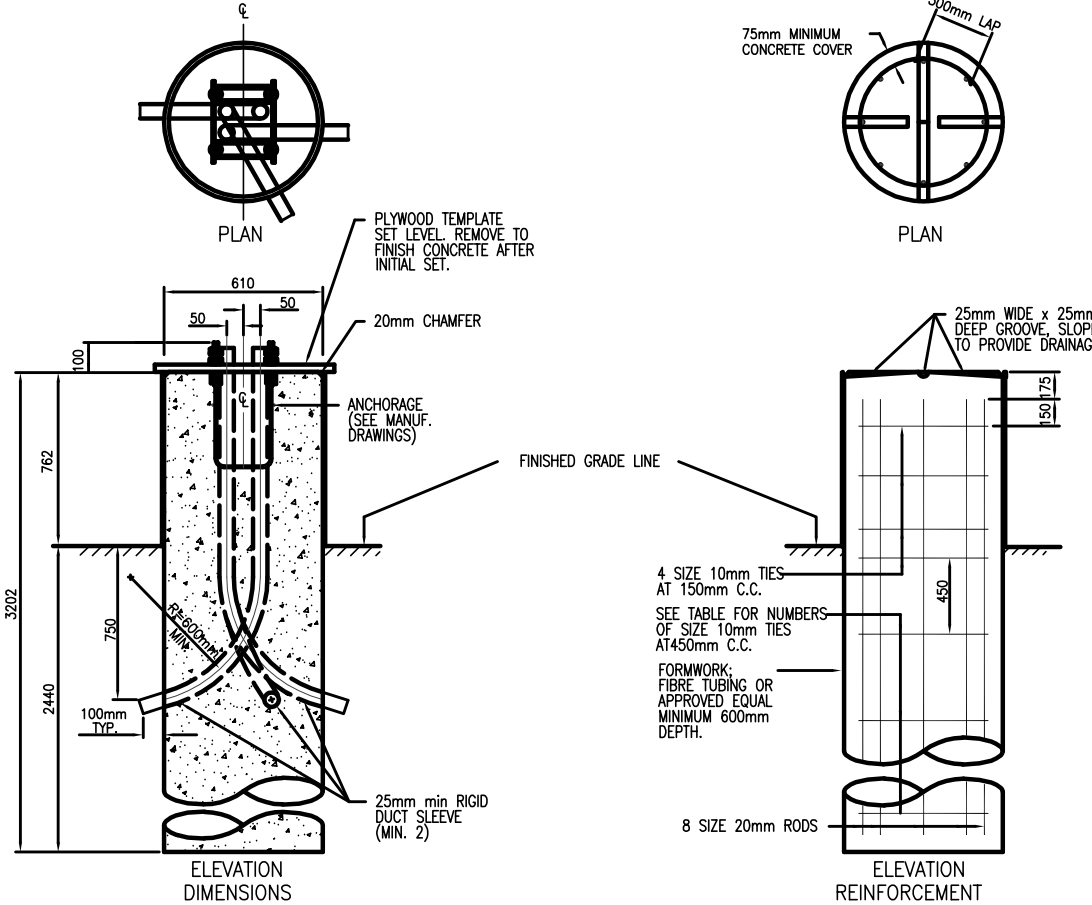
|         |          |            |          |
|---------|----------|------------|----------|
| DATE    | MAY19-23 | PROJECT NO | 2023-077 |
| DRAWN   | JY       | DRAWING NO | LE-1     |
| CHECKED | JP       |            |          |
| SCALE   | 1:400    |            |          |

| Luminaire Schedule |     |                 |             |       |                                                           |            |             |
|--------------------|-----|-----------------|-------------|-------|-----------------------------------------------------------|------------|-------------|
| Symbol             | Qty | Label           | Arrangement | LLF   | Description                                               | Lum. Watts | Lum. Lumens |
|                    | 13  | ZL-2-11L-5Q     | BACK-BACK   | 0.900 | CREE LIGHTING CAT. #OSQM-B-11L-40K7-5Q-UH                 | 72         | 11950       |
|                    | 9   | WC-1            | SINGLE      | 0.900 | METER CAT. #Atria 6 Series 40w 40K (CR185) 40 deg Overbor | 3146       |             |
|                    | 4   | ZL-1-16L-4M-BLS | SINGLE      | 0.900 | CREE LIGHTING CAT. #OSQM-B-16L-40K7-4M-UH-BLS             | 104        | 12350       |
|                    | 15  | WL-1-2L-4ME     | SINGLE      | 0.900 | CREE LIGHTING CAT. #XSPW-B-xx-4ME-6L-40K-UH               | 47         | 6100        |
|                    | 24  | WL-1-2L-2ME     | SINGLE      | 0.900 | CREE LIGHTING CAT. #XSPW-B-xx-2ME-2L-40K-UH               | 19         | 2490        |
|                    | 6   | WL-1-2L-3ME     | SINGLE      | 0.900 | CREE LIGHTING CAT. #XSPW-B-WM-3ME-2L-40K-UH               | 18.34      | 2483        |
|                    | 6   | WL-1-4L-4ME     | SINGLE      | 0.900 | CREE LIGHTING CAT. #XSPW-B-xx-4ME-4L-40K-UH               | 31         | 4270        |
|                    | 44  | DL-1            | SINGLE      | 0.900 | CREE LIGHTING CAT. #RR4-9L-27K-347V                       | 12.6       | 655         |
|                    | 2   | ZL-1-11L-5Q     | SINGLE      | 0.900 | CREE LIGHTING CAT. #OSQM-B-11L-40K7-5Q-UH                 | 72         | 11950       |
|                    | 4   | MD              | SINGLE      | 0.900 | LUMARK-COOPER CAT. #XTOR1B-W-347V                         | 12.2       | 1397        |
|                    | 1   | ZL-1-11L-3M     | SINGLE      | 0.900 | CREE LIGHTING CAT. #OSQM-B-11L-40K7-3M-UH                 | 75.2       | 11319       |

| Calculation Summary  |             |       |      |      |     |         |         |
|----------------------|-------------|-------|------|------|-----|---------|---------|
| Label                | CalcType    | Units | Avg  | Max  | Min | Avg/Min | Max/Min |
| spill east           | Illuminance | Fc    | 0.09 | 0.9  | 0.0 | N.A.    | N.A.    |
| spill north          | Illuminance | Fc    | 0.41 | 2.7  | 0.0 | N.A.    | N.A.    |
| spill south          | Illuminance | Fc    | 0.22 | 1.1  | 0.0 | N.A.    | N.A.    |
| spill west           | Illuminance | Fc    | 0.01 | 0.1  | 0.0 | N.A.    | N.A.    |
| within property line | Illuminance | Fc    | 2.50 | 32.5 | 0.0 | N.A.    | N.A.    |

#### NOTES:

- CLASS OF CONCRETE . . . . . THE CONTRACTOR SHALL CHECK NUMBER 30MPa.
- REINFORCING STEEL SHALL BE GRADE 400.
- CLEAR COVER TO REINFORCING STEEL SHALL BE 80mm ± 20mm EXCEPT AS NOTED.
- EXCAVATION FOR PLACEMENT OF ELECTRICAL CONDUITS NOT TO EXCEED 1.2m BELOW TOP OF FOOTING. CONDUIT LOCATION TO BE SUITABLY MARKED ON TOP OF FOOTING.
- POLE ANCHOR BOLTS SHALL BE VERTICALLY INSTALLED IN THE CORRECT LOCATIONS. NO ADJUSTMENT SHALL BE ALLOWED AFTER CONCRETE PLACEMENT.
- CONCRETE TO BE PLACED AGAINST UNDISTURBED SOIL. THE FOUNDATION MAY BE CONSTRUCTED BY DRIVING AN OPEN END STEEL LINER TO THE ELEVATION OF THE BASE, AND EXCAVATING BY AUGERING OR OTHER SUITABLE METHOD. THE LINER MAY BE WITHDRAWN AS THE CONCRETE IS POURED.
- ANCHORAGE ASSEMBLY SHALL BE PROVIDED WITH WOODEN OR STEEL TEMPLATES.
- ANCHOR RODS ARE ROUND BARS QUENCHED AND TEMPERED MEDIUM CARBON STEEL WITH MINIMUM YIELD OF 517MPa (MINIMUM TENSILE STRENGTH 725MPa) AND SHALL SATISFY CHARNY V-NOTCH REQUIREMENTS FOR 20 JOULES AT MINUS 30°C. WATER SHALL BE REMOVED PRIOR TO CONCRETE PLACEMENT.
- CONTRACTOR SHALL MAINTAIN THE STABILITY OF THE CAISSON BASE AND SIDEWALLS FROM THE TIME OF DRILLING THE CAISSON HOLE TO PLACING THE CONCRETE.
- MINIMUM OF TWO (2) SLEEVES REQUIRED FOR EACH CONCRETE FOOTING.



|                                    | FOOTING HEIGHT<br>H (m) | FOOTING<br>DIAMETER<br>D (m) | FOOTING<br>DEPTH<br>L (m) | BOLT<br>CIRCLE<br>DIA.<br>(B.C.D.)<br>(mm) | TIES AT 150mm C.C. |      |       | TIES AT 450mm C.C. |      |       | REINFORCING BARS |      |       |
|------------------------------------|-------------------------|------------------------------|---------------------------|--------------------------------------------|--------------------|------|-------|--------------------|------|-------|------------------|------|-------|
|                                    |                         |                              |                           |                                            | DEVELOP-<br>LENGTH | SIZE | REQ'D | DEVELOP-<br>LENGTH | SIZE | REQ'D | LENGTH           | SIZE | REQ'D |
| HIGH FOOTING<br>762 mm ABOVE GRADE | 2440                    | 610                          | 3202                      | TO SUIT                                    | 300mm              | 10   | 4     | 300mm              | 10   | 6     | 3000             | 20   | 8     |

**ANCHORAGE ASSEMBLY FOR MEDIUM MAST LIGHTING POLE**  
**(VERIFY WITH STRUCTURAL ENGINEER PRIOR TO INSTALLATION)**  
N.T.S.

| Luminaire Location Summary |                 |         |         |      |         |      |
|----------------------------|-----------------|---------|---------|------|---------|------|
| LumNo                      | Label           | X       | Y       | Z    | Orient  | Tilt |
| 1                          | WC-1            | 325.513 | 523.016 | 12   | 0       | 0    |
| 2                          | WC-1            | 325.402 | 497.727 | 12   | 0       | 0    |
| 3                          | WC-1            | 316.295 | 585.596 | 18   | 0       | 0    |
| 4                          | ZL-2-11L-5Q     | 359.645 | 531.319 | 22.5 | 90      | 0    |
| 7                          | ZL-2-11L-5Q     | 437.956 | 475.349 | 22.5 | 90      | 0    |
| 8                          | ZL-2-11L-5Q     | 370.694 | 372.08  | 22.5 | 90      | 0    |
| 10                         | ZL-2-11L-5Q     | 358.56  | 424.956 | 22.5 | 90      | 0    |
| 13                         | ZL-2-11L-5Q     | 478.605 | 314.997 | 22.5 | 90      | 0    |
| 16                         | WC-1            | 325.458 | 382.766 | 12   | 0       | 0    |
| 17                         | WC-1            | 325.416 | 366.886 | 12   | 0       | 0    |
| 21                         | WL-1-6L-4ME     | 499.46  | 218.828 | 12   | 180     | 0    |
| 24                         | WL-1-2L-2ME     | 511.856 | 203.739 | 12   | 270     | 0    |
| 25                         | WL-1-6L-2ME     | 551.487 | 198.501 | 12   | 270     | 0    |
| 26                         | WL-1-2L-2ME     | 600.034 | 211.335 | 12   | 270     | 0    |
| 27                         | WL-1-2L-2ME     | 629.896 | 211.422 | 12   | 270     | 0    |
| 28                         | WL-1-2L-2ME     | 598.104 | 520.38  | 12   | 18.883  | 0    |
| 29                         | WL-1-2L-2ME     | 617.094 | 463.411 | 12   | 20.974  | 0    |
| 30                         | WL-1-2L-2ME     | 693.316 | 343.408 | 12   | 20.095  | 0    |
| 31                         | WL-1-2L-2ME     | 715.206 | 313.341 | 12   | 19.983  | 0    |
| 32                         | WL-1-2L-2ME     | 725.756 | 280.374 | 12   | 17.813  | 0    |
| 33                         | WL-1-2L-2ME     | 726.02  | 242.659 | 12   | 18.434  | 0    |
| 34                         | WL-1-2L-2ME     | 699.78  | 200.396 | 12   | 285.944 | 0    |
| 35                         | WL-1-2L-3ME     | 730.164 | 210.186 | 12   | 285.944 | 0    |
| 36                         | WL-1-2L-3ME     | 653.648 | 219.888 | 12   | 0       | 0    |
| 37                         | WL-1-2L-2ME     | 679.809 | 232.488 | 12   | 195.943 | 0    |
| 38                         | WL-1-2L-2ME     | 653.774 | 248.261 | 12   | 0       | 0    |
| 39                         | WL-1-2L-2ME     | 669.862 | 262.503 | 12   | 198.435 | 0    |
| 40                         | WL-1-6L-4ME     | 599.095 | 409.38  | 12   | 287.532 | 0    |
| 41                         | WL-1-6L-4ME     | 626.261 | 418.347 | 12   | 286.497 | 0    |
| 42                         | WL-1-6L-4ME     | 653.163 | 349.54  | 12   | 104.859 | 0    |
| 43                         | WL-1-6L-4ME     | 679.933 | 358.347 | 12   | 104.744 | 0    |
| 44                         | WL-1-6L-4ME     | 542.476 | 550.157 | 12   | 103.241 | 0    |
| 45                         | WL-1-6L-4ME     | 574.122 | 560.53  | 12   | 106.926 | 0    |
| 46                         | WL-1-2L-3ME     | 538.061 | 532.58  | 12   | 195.751 | 0    |
| 49                         | WL-1-2L-3ME     | 555.252 | 479.721 | 12   | 196.809 | 0    |
| 52                         | WL-1-2L-3ME     | 587.848 | 422.42  | 12   | 196.141 | 0    |
| 53                         | WL-1-2L-3ME     | 651.54  | 317.847 | 12   | 196.698 | 0    |
| 54                         | WL-1-6L-4ME     | 659.74  | 293.126 | 12   | 193.243 | 0    |
| 58                         | WL-1-4L-4ME     | 627.224 | 263.923 | 12   | 90      | 0    |
| 59                         | WL-1-4L-4ME     | 523.609 | 265.944 | 12   | 90      | 0    |
| 60                         | WL-1-4L-4ME     | 548.304 | 266.053 | 12   | 90      | 0    |
| 61                         | WL-1-4L-4ME     | 573.988 | 266.271 | 12   | 90      | 0    |
| 62                         | WL-1-4L-4ME     | 603.274 | 266.074 | 12   | 90      | 0    |
| 63                         | WL-1-4L-4ME     | 650.669 | 252.981 | 12   | 90      | 0    |
| 64                         | ZL-2-11L-5Q     | 499.916 | 531.676 | 22.5 | 90      | 0    |
| 66                         | ZL-1-16L-4M-BLS | 376.099 | 586.215 | 22.5 | 270     | 0    |
| 67                         | ZL-1-16L-4M-BLS | 477.479 | 586.59  | 22.5 | 270     | 0    |
| 68                         | ZL-2-11L-5Q     | 581.966 | 371.877 | 22.5 | 90      | 0    |
| 69                         | WC-1            | 316.672 | 278.893 | 12   | 0       | 0    |
| 70                         | WL-1-6L-4ME     | 175.677 | 321.25  | 18   | 180     | 0    |
| 71                         | WL-1-6L-4ME     | 175.283 | 399.124 | 18   | 180     | 0    |
| 72                         | WL-1-6L-4ME     | 134.886 | 406.842 | 18   | 270     | 0    |
| 73                         | WL-1-6L-4ME     | 122.799 | 406.843 | 18   | 270     | 0    |
| 75                         | MD              | 159.398 | 406.901 | 10   | 270     | 0    |
| 76                         | WL-1-2L-2ME     | 115.482 | 424.002 | 18   | 180     | 0    |
| 77                         | WL-1-2L-2ME     | 115.074 | 502.757 | 18   | 180     | 0    |
| 78                         | WL-1-2L-2ME     | 115.483 | 581.711 | 18   | 180     | 0    |
| 79                         | WL-1-2L-2ME     | 229.054 | 587.786 | 18   | 90      | 0    |
| 80                         | WL-1-2L-2ME     | 189.932 | 588.061 | 18   | 90      | 0    |
| 81                         | WL-1-2L-2ME     | 268.465 | 587.751 | 18   | 90      | 0    |
| 82                         | WL-1-2L-2ME     | 308.2   | 587.86  | 18   | 90      | 0    |
| 83                         | WL-1-2L-2ME     | 150.381 | 587.854 | 10   | 90      | 0    |
| 84                         | WL-1-6L-4ME     | 198.57  | 289.926 | 18   | 180     | 0    |
| 85                         | WL-1-6L-4ME     | 198.396 | 257.655 | 18   | 180     | 0    |
| 86                         | ZL-1-16L-4M-BLS | 117.726 | 336.949 | 22.5 | 0       | 0    |
| 87                         | MD              | 198.676 | 287.685 | 10   | 180     | 0    |
| 88                         | MD              | 198.312 | 277.109 | 10   | 180     | 0    |
| 92                         | WC-1            | 228.186 | 229.151 | 12   | 270     | 0    |
| 94                         | WC-1            | 277.748 | 228.977 | 12   | 270     | 0    |
| 102                        | DL-1            | 196.63  | 229.98  | 12   | 0       | 0    |
| 110                        | DL-1            | 241.19  | 227.168 | 12   | 0       | 0    |
| 121                        | DL-1            | 318.353 | 399.849 | 12   | 0       | 0    |
| 134                        | DL-1            | 318.291 | 531.794 | 12   | 0       | 0    |
| 138                        | ZL-2-11L-5Q     | 434.996 | 258.961 | 22.5 | 90      | 0    |
| 141                        | WL-1-2L-2ME     | 115.569 | 463.588 | 18   | 180     | 0    |
| 142                        | WL-1-2L-2ME     | 115.395 | 542.413 | 18   | 180     | 0    |
| 143                        | MD              | 167.263 | 406.971 | 10   | 270     | 0    |
| 144                        | WL-1-6L-4ME     | 175.351 | 360.619 | 18   | 180     | 0    |
| 146                        | DL-1            | 288.117 | 227.133 | 12   | 0       | 0    |
| 147                        | DL-1            | 318.296 | 227.405 | 12   | 0       | 0    |
| 148                        | DL-1            | 318.296 | 291.161 | 12   | 0       | 0    |
| 149                        | ZL-1-16L-4M-BLS | 124.577 | 217.039 | 22.5 | 0       | 0    |
| 150                        | DL-1            | 318.291 | 539.794 | 12   | 0       | 0    |
| 151                        | DL-1            | 318.291 | 547.794 | 12   | 0       | 0    |
| 152                        | DL-1            | 318.291 | 555.794 | 12   | 0       | 0    |
| 153                        | DL-1            | 318.353 | 407.849 | 12   | 0       | 0    |
| 154                        | DL-1            | 318.353 | 415.849 | 12   | 0       | 0    |
| 155                        | DL-1            | 318.353 | 423.849 | 12   | 0       | 0    |
| 156                        | DL-1            | 318.353 | 431.849 | 12   | 0       | 0    |
| 157                        | DL-1            | 318.353 | 439.849 | 12   | 0       | 0    |
| 158                        | DL-1            | 318.353 | 447.849 | 12   | 0       | 0    |
| 159                        | DL-1            | 318.353 | 455.849 | 12   | 0       | 0    |
| 160                        | DL-1            | 318.353 | 463.849 | 12   | 0       | 0    |
| 161                        | DL-1            | 318.353 | 471.849 | 12   | 0       | 0    |
| 162                        | DL-1            | 318.353 | 479.849 | 12   | 0       | 0    |
| 163                        | DL-1            | 318.353 | 487.849 | 12   | 0       | 0    |
| 164                        | DL-1            | 318.296 | 299.161 | 12   | 0       | 0    |
| 165                        | DL-1            | 318.296 | 307.161 | 12   | 0       | 0    |
| 166                        | DL-1            | 318.296 | 315.161 | 12   | 0       | 0    |
| 167                        | DL-1            | 318.296 | 323.161 | 12   | 0       | 0    |
| 168                        | DL-1            | 318.296 | 331.161 | 12   | 0       | 0    |
| 169                        | DL-1            | 318.296 | 339.161 | 12   | 0       | 0    |
| 170                        | DL-1            | 318.296 | 347.161 | 12   | 0       | 0    |
| 171                        | DL-1            | 318.296 | 355.161 | 12   | 0       | 0    |
| 182                        | DL-1            | 318.405 | 237.101 | 12   | 0       | 0    |
| 183                        | DL-1            | 318.296 | 244.84  | 12   | 0       | 0    |
| 184                        | DL-1            | 318.296 | 252.905 | 12   | 0       | 0    |
| 185                        | DL-1            | 318.512 | 261.187 | 12   | 0       | 0    |
| 186                        | DL-1            | 318.404 | 269.035 | 12   | 0       | 0    |
| 187                        | DL-1            | 196.63  | 238.48  | 12   | 0       | 0    |
| 188                        | DL-1            | 196.63  | 246.98  | 12   | 0       | 0    |
| 192                        | DL-1            | 249.19  | 227.168 | 12   | 0       | 0    |
| 193                        | DL-1            | 257.19  | 227.168 | 12   | 0       | 0    |
| 194                        | DL-1            | 265.19  | 227.168 | 12   | 0       | 0    |
| 195                        | DL-1            | 296.117 | 227.133 | 12   | 0       | 0    |
| 196                        | DL-1            | 304.117 | 227.133 | 12   | 0       | 0    |
| 197                        | DL-1            | 312.117 | 227.133 | 12   | 0       | 0    |
| 198                        | DL-1            | 205.163 | 227.044 | 12   | 0       | 0    |
| 199                        | DL-1            | 213.609 | 227.044 | 12   | 0       | 0    |
| 200                        | WC-1            | 316.295 | 565.217 | 12   | 0       | 0    |
| 201                        | ZL-2-11L-5Q     | 572.329 | 308.625 | 22.5 | 90      | 0    |
| 202                        | ZL-2-11L-5Q     | 368.95  | 305.704 | 22.5 | 90      | 0    |
| 203                        | ZL-2-11L-5Q     | 478.339 | 373.409 | 22.5 | 90      | 0    |
| 204                        | ZL-2-11L-5Q     | 532.237 | 424.121 | 22.5 | 90      | 0    |
| 205                        | ZL-2-11L-5Q     | 372.336 | 207.771 | 22.5 | 90      | 0    |
| 207                        | ZL-1-11L-3M     | 669.462 | 382.145 | 22.5 | 125.315 | 0    |
| 208                        | ZL-1-11L-5Q     | 293.958 | 203.523 | 22.5 | 0       | 0    |
| 209                        | ZL-1-11L-5Q     | 210.049 | 203.523 | 22.5 | 180     | 0    |

#### REVISIONS

| # | DATE                 |
|---|----------------------|
| 1 | ISSUED FOR S.P.A.    |
| 2 | 3RD STAGE PRECONSULT |
|   |                      |
|   |                      |
|   |                      |
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**PROJECT**  
PROPOSED COMMERCIAL DEVELOPMENT  
CAMPEAU DRIVE & PALLADIUM DRIVE  
OTTAWA, ONTARIO

**DRAWING**  
LIGHTING SCHEDULE & CALCULATION

|         |          |            |          |
|---------|----------|------------|----------|
| DATE    | MAY19-23 | PROJECT NO | 2023-077 |
| DRAWN   | JY       | DRAWING NO | LE-1a    |
| CHECKED | JP       |            |          |
| SCALE   | 1:400    |            |          |

## KR Series

KR4™ LED Specification Downlight – Round 4"

### Product Description

The KR4™ LED specification downlight features Cree TrueWhite® Technology and delivers beautiful, high-quality light with efficacy up to 75 lumens per watt. Designed for new construction applications, the KR Series is available in a variety of color temperatures, round and square trims with high-quality anodized aluminum reflector finishes, a sloped ceiling adaptor accessory and a variety of dimming options including Cree Sunset Dimming Technology which provides rich, warm light that transitions from 2700K to 1800K as naturally as an incandescent source.

### Performance Summary

Utilizes Cree TrueWhite® Technology

**Initial Delivered Lumens:** 700-3,200 lumens; Delivered lumen output is typical when using a S50C type reflector

**Input Power:** 13-44 watts

**Emergency Performance:** Up to 1,210 Lumens; 10W; Minimum 90 Minutes

CRI: 90

CCT: 2700K, 3000K, 3500K, 4000K

Controls: Triac, 0/1-10V; See control availability chart on page 3

**Limited Warranty\*:** 10 years on KR4™ luminaire

**Limited Warranty Emergency Back Up (EB) Battery:** 1-year Battery Back Up; Test regularly in accordance with local codes

\*See <http://lighting.cree.com/warranty> for warranty terms

### Accessories

Field-Installed

| Standard Ceiling Adapter<br>KRC4™/4W<br>** KRC4™ is a 5 degree incremental | C-Chestnut Hanger Bars<br>RB400C<br>Pair of 30" (762mm) rigid 3/4" x 1/2" (19mm x 13mm) C-chestnut bars<br>RB400C-1<br>Pair of 24" (610mm) 1-1/2" (38mm) x 1/2" (13mm) standard C-chestnut bars | T-Rise Drip Rack<br>RACT<br>Set of four<br>For use with RB400C-1 hanger bars<br>10m Ring<br>KRL™<br>White heavy ring to cover gap behind hangers on KRA4™ reflector |
|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Ordering Information

Fully assembled luminaire is composed of two components that must be ordered separately:

Example: **Housing:** KR4-20L-35K-120V-10V + **Reflector:** KR4LT-S50C-FF

Reflector Housing must be ordered separately

| KRA4                                                                                             | Reflector Finish                                 | Flange Finish                            |
|--------------------------------------------------------------------------------------------------|--------------------------------------------------|------------------------------------------|
| Series                                                                                           |                                                  |                                          |
| KRA4: Standard Trim<br>- Reflector attaches to housing with pan head fasteners and keyhole slots | S50C: Soft Satin Clear, Clear<br>WF: White Paint | FF: Matches Reflector<br>WF: White Paint |

Housing (Reflector must be ordered separately)

| Series | Size      | Reflector      | Initial Delivered Lumens                                                                                                                        | Optic                                                                                          | CCT                                                                 | Voltage                                           | Controls                                                                                                                                                         | Options                                                                                                                                                                                                       |
|--------|-----------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| KR     | 4<br>inch | Blank<br>Round | 9L: 700 Lumens – 54 LPW<br>13L: 1,000 Lumens – 64 LPW<br>20L: 1,500 Lumens – 82 LPW<br>30L: 2,300 Lumens – 40 LPW<br>40L: 3,200 Lumens – 73 LPW | Blank<br>10° Beam Angle<br>27K: 2700K<br>30K: 3000K<br>35K: 3500K<br>40K: 4000K<br>400K: 4000K | 27K: 2700K<br>30K: 3000K<br>35K: 3500K<br>40K: 4000K<br>400K: 4000K | 120V<br>120V/100V<br>120V<br>277V<br>347V<br>347V | Blank<br>- For standard control offering refer to control availability chart on page 3<br>10V 0/1-10V Dimming<br>- Refer to control availability chart on page 3 | WD: Sunset Dim<br>- 1% and 10% CTR with Triac Dimming only<br>EB: Emergency Back Up<br>- Minimum 90 minutes<br>- Refer to control availability chart on page 3<br>- Minimum operating temperature: 0°C (32°F) |

Rev. Date: V10 02/12/2018



US: [lighting.cree.com](http://lighting.cree.com) T (800) 234-6800 F (242) 504-5415

Canada: [www.cree.com/canada](http://www.cree.com/canada) T (800) 473-1234 F (800) 890-7507

FIXTURE TYPE: DL-1

## OSQ Series

OSQ™ LED Area/Flood Luminaire featuring Cree TrueWhite® Technology – Medium & Large

### Product Description

The OSQ™ Area/Flood luminaire blends extreme optical control, advanced thermal management and modern, clean aesthetics. Built to last, the housing is rugged cast aluminum with an integral, weatherright LED driver compartment. Versatile mounting configurations offer simple installation. Its slim, low-profile design minimizes wind load requirements and blends seamlessly into the site providing even, quality illumination. The 6L lumen package is a suitable upgrade for HID applications up to 350 Watts, and the 11L lumen package is a suitable upgrade for HID applications up to 400 Watts. The 22L lumen package is a suitable upgrade for HID applications up to 1000 Watts.

**Applications:** Parking lots, walkways, campuses, car dealerships, office complexes, tunnels, overpasses, and internal roadways

### Performance Summary

Utilizes Cree TrueWhite® Technology on 5000K Luminaire

NanoOptic® Precision Delivery Grid™ optic

Assembled in the USA by Cree Lighting from US and Imported parts

**Initial Delivered Lumens:** 4,000 – 30,000

**Efficacy:** Up to 173 LPW

CRI: Minimum 70 CRI (3000K, 4000K & 5700K); 90 CRI (5000K)

CCT: 3000K, 4000K, 5000K, 5700K

**Limited Warranty\*:** 10 years on luminaire; 10 years on Colorfast DeltaGuard® finish; up to 5 years for Synapse® accessories; 1 year on luminaire accessories

\*See <http://lighting.cree.com/warranty> for warranty terms. For Synapse accessories, consult Synapse spec sheets for details on warranty terms.

### Ordering Information

Fully assembled luminaire is composed of two components that must be ordered separately:

Example: **Housing:** OSQ-ML-B-4A-BK + **Luminaire:** OSQ-ML-B-4L-20K-2M-UL-BK-BK

Mount Luminaire must be ordered separately\*

| OSQ-                                                                                                                                                        | Color Options | SV Silver | BZ Bronze | BK Black | WB White |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------|-----------|----------|----------|
| OSQ-ML-B-4A Adjustable Arm<br>OSQ-ML-B-4A Direct Arm<br>OSQ-ML-B-4P Transportation Mount (stainless steel); do not specify color<br>OSQ-ML-B-1M Truss Mount |               |           |           |          |          |

\*Reference 30V and 48V configuration availability data beginning on page 10

Luminaire (Mount must be ordered separately)

| Family | Size           | Series | Lumen Package                                                                                                                                                                                                      | CCT/CRI                                                                                | Optic                                                                                                                                    | Voltage                                                                                | Mount                                                              | Color Options                                                      | Controls*                                                                              | Options                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| OSQ    | Med-L<br>Large | B      | 4L: 4,000 Lumens<br>6L: 6,000 Lumens<br>9L: 9,000 Lumens<br>11L: 11,000 Lumens<br>13L: 13,000 Lumens<br>15L: 15,000 Lumens<br>17L: 17,000 Lumens<br>19L: 19,000 Lumens<br>21L: 21,000 Lumens<br>23L: 23,000 Lumens | 2700K<br>5000K<br>5000K<br>5000K<br>5000K<br>5000K<br>5000K<br>5000K<br>5000K<br>5000K | Asymmetric<br>Asymmetric<br>Asymmetric<br>Asymmetric<br>Asymmetric<br>Asymmetric<br>Asymmetric<br>Asymmetric<br>Asymmetric<br>Asymmetric | Optic<br>Optic<br>Optic<br>Optic<br>Optic<br>Optic<br>Optic<br>Optic<br>Optic<br>Optic | 12V<br>12V<br>12V<br>12V<br>12V<br>12V<br>12V<br>12V<br>12V<br>12V | Med<br>Med<br>Med<br>Med<br>Med<br>Med<br>Med<br>Med<br>Med<br>Med | Black<br>Black<br>Black<br>Black<br>Black<br>Black<br>Black<br>Black<br>Black<br>Black | PHL: Programmable Mid-Learn, up to 42V<br>Hearing Range<br>PHL: Programmable Mid-Learn, up to 42V<br>Hearing Range<br>PHL: Programmable Mid-Learn, up to 42V<br>Hearing Range<br>PHL: Programmable Mid-Learn, 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