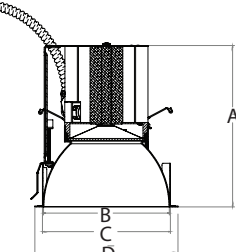
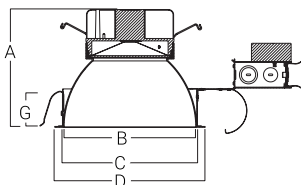
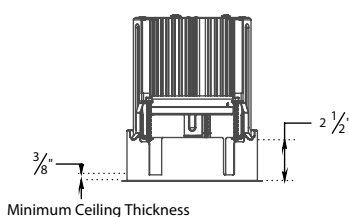
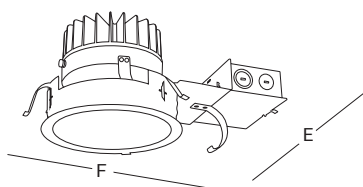




REFLECTOR/  
FLANGE COLORS



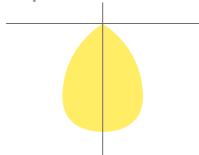
A: Height = 7-1/8"  
B: Trim Aperture = 8"  
C: Cut-Out = 8-3/16"  
D: Trim Outside Dia = 9-1/8"  
E: Width = 8-11/16"  
F: Length = 14-11/16"  
G: Flange = 3-3/16"

A: Height = 10-1/4"  
B: Trim Aperture = 7-3/4"  
C: Cut-Out = 8-1/8"  
D: Trim Outside Dia = 9-1/8"

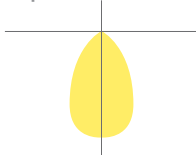
| NOMINAL LUMENS | DELIVERED LUMENS | WATTAGE |
|----------------|------------------|---------|
| 8000           | 7772             | 90 W    |
| 6000           | 6542             | 76 W    |
| 5000           | 5496             | 64 W    |
| 4000           | 4733             | 49 W    |
| 3000           | 3584             | 44 W    |
| 2000           | 2430             | 28 W    |
| 1500           | 1809             | 22 W    |
| 1200           | 1468             | 16 W    |
| 900            | 1113             | 12 W    |

Based on 4000K, 90+CRI with semi-specular chrome reflector.  
Actual wattage may vary +/-5%

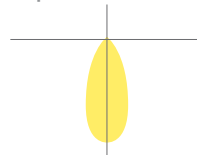
WD: Wide  
Candlepower Distribution Curve



MD: Medium  
Candlepower Distribution Curve



ND: Narrow  
Candlepower Distribution Curve



Reference IES files for additional distribution curve information.

## FEATURES

A highly sustainable and ultra-efficient architectural LED downlight that provides even, glare-free illumination. Available in a range of finishes, distributions, and lumen packages, it is ideally suited for use in corporate office space, hospitality, healthcare, commercial, academic, churches and retail.

## OPTICS AND REFLECTOR

The reflector has a 45° visual cutoff, and is shipped standard with a Solite lens in a smooth frosted finish. Spun from 0.05" thick aluminum, with a 1-step anodized finish, and available in different colors or custom RAL finishes. Reflector flange options include self-flanged and white painted flange. Various distribution options are available, and all optics are field changeable.

|                         |                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------|
| LUMENS                  | 900, 1200, 1500, 2000, 3000, 4000, 5000* 1, 6000, 8000 (Custom lumen packages available)                |
| CCT & DYNAMIC PLATFORMS | 27K, 30K, 35K, 40K, 50K, Tunable White, Dims to Warm, RGB + White                                       |
| CRI                     | 90+ Standard, 98+ Optional                                                                              |
| COLOR QUALITY           | 2 Step MacAdam Ellipse                                                                                  |
| DISTRIBUTIONS           | WD (Wide Distribution), MD (Medium Distribution) and ND (Narrow Distribution)                           |
| TRIM OPTIONS            | Downlight, Wall Wash, Double Wall Wash, Wet Location                                                    |
| REFLECTOR COLORS        | CL (Semi-Specular Chrome), SHZ (Low Iridescent Satin Haze), WT (Wheat), WH (White), MB (Black)          |
| FLANGE COLORS           | Self-Flanged WH (White), SCH (Semi-Specular Chrome), SHZ (Low Iridescent Satin Haze), BK (Black)        |
| DIMMING                 | 0-10V Flicker Free 1% Dimming Standard (DIM10), LUTH, LUTFB, LUT2W, ELDO10.1, ELDO10.1, ELDO10.1, DIMTR |
| EMERGENCY               | 10W - Up to 1000L Output (Bodine BSL310)<br>20W - Up to 2000L Output (Bodine BSL20)                     |
| LIFETIME                | L70 at 102,000 Hours                                                                                    |
| PHOTOMETRIC TESTS       | In Accordance with IES LM79-08, LM80 and TM-30, TM-21                                                   |

\* 5000 Lumens is not ENERGY STAR certified

\* Only Available on 85+ CRI



### THERMAL MANAGEMENT SYSTEM

Passive cooling Diecast Aluminum Heat Sink, LED light engine and driver are replaceable, upgradeable, and can be accessed from below the ceiling. The consistency in the quality of light is delivered with precision performance by the use of a unique locking mechanism that aligns the reflector with the light engine.

### MOUNTING FRAME & BRACKETS

Designed for fast and easy installation in existing plaster or mechanical ceiling thickness from 1/2" to 1-3/4", with four remodel clips that are easily retractable for luminaire removal, if necessary.

### DRIVER ELECTRICAL INFORMATION

The LED driver is rated for 50 to 60Hz at 120V/277V, also available in 347V input, produces less than 20%THD, has a power factor between 90% and 100%, and is thermally protected for additional safety. Junction box and Driver can be accessed from below the ceiling and above the ceiling. Junction Box is Listed for through branch circuit wiring.

### DIMMING & DRIVER INFORMATION

**DIM10** - 0-10V dimming on either MVOLT 120, 277 or 347V. Dimmable down to 1% of initial lumens, standard.

**DIMTR** - Triac & Electronic low voltage dimming. Available in 120V, and up to 4000 lumens only.

**LUT2W** - Lutron LTEA2W Hi-Lume 1%. 2-wire LED Driver Forward Phase Control, 1% dimming in 120V only. Available on all luminaires up to 3000 lumens.

**LUTH** - Lutron LDE1 Hi-Lume Eco System. 1% dimming with Soft in Fade to Black dimming technology. Available on all luminaires up to 3000 lumens.

**LUTFB** - Lutron PEQ0 Hi-Lume Premier Eco System. 0.1% dimming with Soft in Fade to Black dimming technology. Available on all luminaires up to 1500 lumens.

**ELDO10.1** - EldoLED SoloDrive 0-10V. Dimming down to 0.1%.

**DALI** - DALI DT6, DT8 dimming down to 1%.

**ELDODMX** - EldoLED PowerDrive dimming down to 0.1%.

Please see EldoLED website for wiring diagrams and a list of compatible DMX and DALI control systems.

### WARRANTY

Five-year warranty for parts and components. (Labor not included)

### LED DYNAMIC PLATFORM OPTIONS



**Tunable White with Smart White Technology** utilizing the Lumenetix Platform allows you to color tune the luminaire via various controls. Create the perfect environment for the desired use of the space, while maintaining a CRI of 90+ across the tunable range of 8000 to 1650K. (Click here for more details)



**Dims to Warm with Smart Dimming Technology.** At 100% full brightness the luminaire is at 3000K. When dimmed to 1%, the light transitions to 1800K, creating a warm ambiance within the space. (Click here for more details)



**RGB+White with Smart Hue Technology** provides full color mixing of RGB and white colors. Utilizing the Lumenetix Platform allows you to choose from unlimited RGB color options, via various controls. Ideal for Circadian Rhythm applications or to create the perfect human centric environment. (Click here for more details)

### LISTINGS

c-UL-us - Listed for Wet Location if used with HH8-8501 Trim.

c-UL-us - Listed for Feed Through Wiring.

U.S Patent No. - D685,118S

Energy Star and California Title 24 compliant

Optional Black color trim is not ENERGYSTAR certified and won't meet the requirement.

Example: **HHR8-LED-4000L-DIM10-MVOLT-MD-40K-90-HH8-8501-CL-WH**

| SERIES   | LUMENS                                      | DRIVER                                            | VOLTAGE                                      | CCT                                       | EMERGENCY                                                                                                                                                                                              | TRIM TYPE                                                     | REFLECTOR/FLANGE COLORS          |
|----------|---------------------------------------------|---------------------------------------------------|----------------------------------------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------------|
| HHR8-LED | <input type="checkbox"/> 900L               | <input type="checkbox"/> DIM10                    | <input type="checkbox"/> 120                 | <input type="checkbox"/> 27K              | <input type="checkbox"/> EMG-LED-10W                                                                                                                                                                   | <input type="checkbox"/> HH8-8501<br>Flanged Downlight        | <input type="checkbox"/> CL-WH   |
|          | <input type="checkbox"/> 1200L              | <input type="checkbox"/> DIMTR <sup>1 5</sup>     | <input type="checkbox"/> 277                 | <input type="checkbox"/> 30K              | <input type="checkbox"/> EMG-LED-20W                                                                                                                                                                   | <input type="checkbox"/> HH8-8507<br>Flanged Wall Wash        | <input type="checkbox"/> CL-SCH  |
|          | <input type="checkbox"/> 1500L              | <input type="checkbox"/> LUTH <sup>2 5</sup>      | <input type="checkbox"/> MVOLT               | <input type="checkbox"/> 35K              | Typical lumen output of the luminaire is up to 1000L with EMG-LED-10W option & 2000L with EMG-LED-20W option in emergency mode. Contact the factory for details.<br><b>Remote mounted installation</b> | <input type="checkbox"/> HH8-8577<br>Flanged Double Wall Wash | <input type="checkbox"/> SHZ-WH  |
|          | <input type="checkbox"/> 2000L              | <input type="checkbox"/> LUT2W <sup>1 5</sup>     | <input type="checkbox"/> 347<br>(DIM10 only) | <input type="checkbox"/> 40K              |                                                                                                                                                                                                        |                                                               | <input type="checkbox"/> SHZ-SHZ |
|          | <input type="checkbox"/> 3000L              | <input type="checkbox"/> LUTFB <sup>6</sup>       |                                              | <input type="checkbox"/> 50K <sup>3</sup> |                                                                                                                                                                                                        |                                                               | <input type="checkbox"/> WT-WH   |
|          | <input type="checkbox"/> 4000L              | <input type="checkbox"/> ELDO10-.1 <sup>2</sup>   |                                              |                                           |                                                                                                                                                                                                        |                                                               | <input type="checkbox"/> WH-WH   |
|          | <input type="checkbox"/> 5000L <sup>7</sup> | <input type="checkbox"/> ELDODALI-.1 <sup>2</sup> |                                              |                                           |                                                                                                                                                                                                        |                                                               | <input type="checkbox"/> MB-WH*  |
|          | <input type="checkbox"/> 6000L              | <input type="checkbox"/> ELDODMX-.1 <sup>2</sup>  |                                              |                                           |                                                                                                                                                                                                        |                                                               | <input type="checkbox"/> CL-BK   |
|          | <input type="checkbox"/> 8000               |                                                   |                                              |                                           |                                                                                                                                                                                                        |                                                               | <input type="checkbox"/> MB-BK*  |
|          |                                             |                                                   | <b>OPTICS</b>                                | <b>CRI</b>                                |                                                                                                                                                                                                        |                                                               |                                  |
|          |                                             |                                                   | <input type="checkbox"/> WD                  | <input type="checkbox"/> 90+              |                                                                                                                                                                                                        |                                                               |                                  |
|          |                                             |                                                   | <input type="checkbox"/> MD                  | <input type="checkbox"/> 98+ <sup>4</sup> |                                                                                                                                                                                                        |                                                               |                                  |
|          |                                             |                                                   | <input type="checkbox"/> ND                  |                                           |                                                                                                                                                                                                        |                                                               |                                  |

<sup>1</sup> DIMTR and LUT2W are available in 120V only <sup>2</sup> LUTH, ELDO10-.1, ELDODALI-.1, and ELDODMX-.1 are available in 120V and 277V <sup>3</sup> 50K series are available with 85+ CRI only

<sup>4</sup> 98+ CRI is available in 27K, 30K and 40K only <sup>5</sup> DIMTR and LUTH, LUT2W Available for luminaires up to 4000L <sup>6</sup> LUTFB Available for luminaires up to 1500L <sup>7</sup> 5000 Lumens is not energy Star certified

-Reference last page for Control Options

**HHR8-LED-4000L-DIM10-MVOLT-ND-40K-90-HH8-8501-CL-WH**

INPUT WATTS: **49.1**

LUMENS: **4733**

CRI: **90**

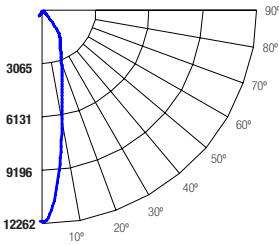
EFFICACY: **96**

CCT: **4000K**

TEST NO.: **EL1218150**

SPACING CRITERIA: **0.50**

**Candle Power Distribution (Candelas)**



| Cone of Light     |                             |               |
|-------------------|-----------------------------|---------------|
| 4.0               | 42.4 fc                     | 7 ft          |
| 8.0               | 10.6 fc                     | 14 ft         |
| 12.0              | 4.71 fc                     | 21 ft         |
| 16.0              | 2.65 fc                     | 28 ft         |
| 20.0              | 1.7 fc                      | 34.9 ft       |
| 24.0              | 1.18 fc                     | 41.9 ft       |
| Distance to Plane | Initial Footcandle at Nadir | Beam diameter |

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

**Zonal Lumens Summary**

| Zone | Lumens  | %Lamp | %Fixt  |
|------|---------|-------|--------|
| 0-20 | 2146.83 | N.A.  | 45.40  |
| 0-30 | 3352.59 | N.A.  | 70.80  |
| 0-40 | 4332.2  | N.A.  | 91.50  |
| 0-60 | 4707.73 | N.A.  | 99.50  |
| 0-80 | 4729.85 | N.A.  | 99.90  |
| 0-90 | 4732.63 | N.A.  | 100.00 |

**Luminance (Average candela/M<sup>2</sup>)**

| Angle in Degrees | Average 0° | Average 45° | Average 90° |
|------------------|------------|-------------|-------------|
| 45               | 6967       | 10815       | 26724       |
| 55               | 2116       | 2811        | 3813        |
| 65               | 759        | 870         | 2123        |
| 75               | 500        | 695         | 816         |
| 85               | 339        | 1331        | 1475        |

**Lumens Per Zone**

| Zone  | Lumens  |
|-------|---------|
| 0-10  | 837.03  |
| 10-20 | 1309.8  |
| 20-30 | 1205.76 |
| 30-40 | 979.61  |
| 40-50 | 322.34  |
| 50-60 | 53.19   |
| 60-70 | 16.44   |
| 70-80 | 5.68    |
| 80-90 | 2.78    |

**Candela Tabulation**

| Q  |          |
|----|----------|
| 0  | 12261.97 |
| 5  | 10025.75 |
| 15 | 4551.01  |
| 25 | 2513.40  |
| 35 | 1730.89  |
| 45 | 156.73   |
| 55 | 38.62    |
| 65 | 10.21    |
| 75 | 4.12     |
| 85 | 0.94     |
| 90 | 0.15     |

**Coefficients of Utilization - Zonal Cavity Method**  
Effective Floor Cavity Reflectance 0.20

| RC                | 80% |     |     |     | 70% |     |     |     | 50% |     |     |     | 30% |     |     |     | 10% |     |     |  | 0% |
|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|----|
|                   | RW  | 70% | 50% | 30% | 10% | 70% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0%  |  |    |
| ROOM CAVITY RATIO | 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |  |    |
|                   | 1   | 114 | 111 | 109 | 106 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99  | 98  | 97  | 96  | 94  |  |    |
|                   | 2   | 108 | 104 | 100 | 97  | 106 | 102 | 98  | 95  | 99  | 96  | 93  | 96  | 93  | 91  | 93  | 91  | 89  | 88  |  |    |
|                   | 3   | 103 | 97  | 92  | 88  | 101 | 96  | 91  | 88  | 93  | 89  | 86  | 91  | 88  | 85  | 88  | 86  | 84  | 82  |  |    |
|                   | 4   | 98  | 91  | 86  | 82  | 97  | 90  | 85  | 81  | 88  | 84  | 80  | 86  | 82  | 79  | 84  | 81  | 78  | 77  |  |    |
|                   | 5   | 94  | 86  | 80  | 76  | 92  | 85  | 80  | 76  | 83  | 78  | 75  | 81  | 77  | 74  | 80  | 76  | 74  | 72  |  |    |
|                   | 6   | 89  | 81  | 75  | 71  | 88  | 80  | 75  | 71  | 79  | 74  | 70  | 77  | 73  | 70  | 76  | 72  | 69  | 68  |  |    |
|                   | 7   | 85  | 76  | 71  | 67  | 84  | 76  | 70  | 66  | 74  | 70  | 66  | 73  | 69  | 66  | 72  | 68  | 65  | 64  |  |    |
|                   | 8   | 81  | 72  | 67  | 63  | 80  | 72  | 66  | 63  | 71  | 66  | 62  | 70  | 66  | 62  | 69  | 65  | 62  | 61  |  |    |
|                   | 9   | 78  | 69  | 63  | 59  | 77  | 68  | 63  | 59  | 67  | 62  | 59  | 66  | 62  | 59  | 66  | 62  | 59  | 57  |  |    |
| 10                | 75  | 65  | 60  | 56  | 74  | 65  | 60  | 56  | 64  | 59  | 56  | 63  | 59  | 56  | 63  | 59  | 56  | 55  |     |  |    |

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

**HHR8-LED-4000L-DIM10-MVOLT-MD-40K-90-HH8-8501-CL-WH**

INPUT WATTS: **48.5**

LUMENS: **4363**

CRI: **90**

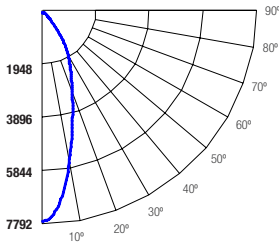
EFFICACY: **90**

CCT: **4000K**

TEST NO.: **EL1218148**

SPACING CRITERIA: **0.66**

**Candle Power Distribution (Candelas)**



| Cone of Light     |                             |               |
|-------------------|-----------------------------|---------------|
| 4.0               | 27 fc                       | 10.8 ft       |
| 8.0               | 6.74 fc                     | 21.6 ft       |
| 12.0              | 3 fc                        | 32.4 ft       |
| 16.0              | 1.69 fc                     | 43.2 ft       |
| 20.0              | 1.08 fc                     | 54 ft         |
| 24.0              | 0.75 fc                     | 64.9 ft       |
| Distance to Plane | Initial Footcandle at Nadir | Beam diameter |

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

**Zonal Lumens Summary**

| Zone | Lumens  | %Lamp | %Fixt  |
|------|---------|-------|--------|
| 0-20 | 1858.94 | N.A.  | 42.60  |
| 0-30 | 3045.77 | N.A.  | 69.80  |
| 0-40 | 3931.59 | N.A.  | 90.10  |
| 0-60 | 4338.31 | N.A.  | 99.40  |
| 0-80 | 4360.45 | N.A.  | 99.90  |
| 0-90 | 4363.05 | N.A.  | 100.00 |

**Luminance (Average candela/M<sup>2</sup>)**

| Angle in Degrees | Average 0° | Average 45° | Average 90° |
|------------------|------------|-------------|-------------|
| 45               | 10117      | 16331       | 24847       |
| 55               | 1983       | 3513        | 4050        |
| 65               | 705        | 800         | 2194        |
| 75               | 457        | 634         | 740         |
| 85               | 303        | 1208        | 1331        |

**Lumens Per Zone**

| Zone  | Lumens  |
|-------|---------|
| 0-10  | 631.11  |
| 10-20 | 1227.84 |
| 20-30 | 1186.83 |
| 30-40 | 885.82  |
| 40-50 | 346.15  |
| 50-60 | 60.57   |
| 60-70 | 16.85   |
| 70-80 | 5.30    |
| 80-90 | 2.60    |

**Candela Tabulation**

| Q  |         |
|----|---------|
| 0  | 7791.97 |
| 5  | 7129.49 |
| 15 | 4331.67 |
| 25 | 2510.30 |
| 35 | 1374.17 |
| 45 | 227.60  |
| 55 | 36.18   |
| 65 | 9.48    |
| 75 | 3.76    |
| 85 | 0.84    |
| 90 | 0.15    |

**Coefficients of Utilization - Zonal Cavity Method**  
Effective Floor Cavity Reflectance 0.20

|                   | RC | 80% |     |     |     | 70% |     |     |     | 50% |     |     |     | 30% |     |     |     | 10% |     |     |  | 0% |
|-------------------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|----|
|                   | RW | 70% | 50% | 30% | 10% | 70% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0%  |     |  |    |
| ROOM CAVITY RATIO | 0  | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |  |    |
|                   | 1  | 114 | 111 | 108 | 106 | 111 | 109 | 106 | 104 | 105 | 103 | 101 | 101 | 101 | 100 | 98  | 97  | 96  | 95  | 94  |  |    |
|                   | 2  | 108 | 103 | 99  | 96  | 106 | 102 | 98  | 95  | 98  | 95  | 93  | 95  | 95  | 93  | 91  | 93  | 91  | 89  | 87  |  |    |
|                   | 3  | 103 | 96  | 91  | 88  | 101 | 95  | 90  | 87  | 92  | 89  | 85  | 90  | 87  | 84  | 88  | 85  | 83  | 81  | 81  |  |    |
|                   | 4  | 98  | 90  | 85  | 81  | 96  | 89  | 84  | 80  | 87  | 83  | 79  | 85  | 81  | 78  | 83  | 80  | 77  | 76  | 76  |  |    |
|                   | 5  | 93  | 85  | 79  | 75  | 91  | 84  | 78  | 74  | 82  | 77  | 74  | 80  | 76  | 73  | 79  | 75  | 72  | 71  | 71  |  |    |
|                   | 6  | 88  | 80  | 74  | 69  | 87  | 79  | 73  | 69  | 77  | 72  | 69  | 76  | 72  | 68  | 75  | 71  | 68  | 66  | 66  |  |    |
|                   | 7  | 84  | 75  | 69  | 65  | 83  | 74  | 69  | 65  | 73  | 68  | 64  | 72  | 67  | 64  | 71  | 67  | 64  | 62  | 62  |  |    |
|                   | 8  | 80  | 71  | 65  | 61  | 79  | 70  | 65  | 61  | 69  | 64  | 61  | 68  | 64  | 60  | 67  | 63  | 60  | 59  | 59  |  |    |
|                   | 9  | 77  | 67  | 61  | 57  | 75  | 67  | 61  | 57  | 66  | 61  | 57  | 65  | 60  | 57  | 64  | 60  | 57  | 55  | 55  |  |    |
| 10                | 73 | 64  | 58  | 54  | 72  | 63  | 58  | 54  | 62  | 57  | 54  | 62  | 57  | 54  | 61  | 57  | 54  | 52  | 52  |     |  |    |

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

**HHR8-LED-4000L-DIM10-MVOLT-WD-40K-90-HH8-8501-CL-WH**

INPUT WATTS: **48.7**

LUMENS: **3963**

CRI: **90**

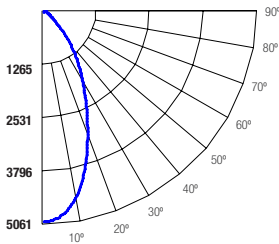
EFFICACY: **81**

CCT: **4000K**

TEST NO.: **EL1218147**

SPACING CRITERIA: **0.80**

**Candle Power Distribution (Candelas)**



| Cone of Light     |                             |               |
|-------------------|-----------------------------|---------------|
| 4.0               | 17.5 fc                     | 15.4 ft       |
| 8.0               | 4.38 fc                     | 30.9 ft       |
| 12.0              | 1.95 fc                     | 46.3 ft       |
| 16.0              | 1.09 fc                     | 61.7 ft       |
| 20.0              | 0.70 fc                     | 77.1 ft       |
| 24.0              | 0.49 fc                     | 92.6 ft       |
| Distance to Plane | Initial Footcandle at Nadir | Beam diameter |

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

**Zonal Lumens Summary**

| Zone | Lumens  | %Lamp | %Fixt  |
|------|---------|-------|--------|
| 0-20 | 1517.55 | N.A.  | 38.30  |
| 0-30 | 2621.36 | N.A.  | 66.20  |
| 0-40 | 3458.98 | N.A.  | 87.30  |
| 0-60 | 3936.07 | N.A.  | 99.30  |
| 0-80 | 3960.06 | N.A.  | 99.90  |
| 0-90 | 3962.51 | N.A.  | 100.00 |

**Luminance (Average candela/M<sup>2</sup>)**

| Angle in Degrees | Average 0° | Average 45° | Average 90° |
|------------------|------------|-------------|-------------|
| 45               | 18116      | 23677       | 23992       |
| 55               | 1929       | 5705        | 5394        |
| 65               | 698        | 806         | 2795        |
| 75               | 442        | 616         | 718         |
| 85               | 289        | 1122        | 1237        |

1- Luminaire will be shipped with Powerpacks pre-installed, ready to be integrated to designated control systems

2- Luminaire will be shipped with Sensors installed on the luminaire, allowing for individual luminaire control. Luminaires will be ready to be integrated with designated control systems

3- Luminaire will be shipped with Sensors to be remotely installed on the ceiling. Luminaires will be ready to be integrated with designated control systems

| BRAND                                          | EASYFIT<br>by EnOcean                                                                                                                                        | LUTRON                                                                                                                                                                                        | enlighted                                                                                                                                                                                                                                                                                                                                                                                                                     | LEVITON®                                                                                                                                                       | OSRAM                                                                                                                                                                                                                                                                                                 | PHILIPS<br>EasySense                                                           | legrand®                                                                                                                 |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| CONTROL UNIT                                   | <input type="checkbox"/> LEDRU<br>LED Relay Zone<br>Controller 0-10V <sup>1</sup>                                                                            | <input type="checkbox"/> FCJS-010<br>Lutron Vive 0-10V Individual<br>Pow Pak (Luminaire is<br>shipped Vive Enabled) <sup>14</sup>                                                             | <input type="checkbox"/> CU-4E-FMH<br>Fixture Mount Control<br>Unit <sup>15</sup>                                                                                                                                                                                                                                                                                                                                             | <input type="checkbox"/> ZL027 –NOW<br>Intellect Power Control<br>Module <sup>16</sup>                                                                         | <input type="checkbox"/> EN-WCM2-ZB-DR<br>Wireless Control Module <sup>17</sup>                                                                                                                                                                                                                       | <input type="checkbox"/> SBR -BS<br>Xitanium SR<br>Bridge <sup>18</sup>        | <input type="checkbox"/> LMFC-011<br>ON/OFF/0-10V dimming<br>fixture controller <sup>19</sup>                            |
|                                                | <input type="checkbox"/> LEDDU<br>LED Zone Controller<br>0-10V <sup>1</sup>                                                                                  | <input type="checkbox"/> FCJS-ECO<br>Lutron Vive Eco-system Pow<br>Pak (Luminaire is shipped Vive<br>Enabled) <sup>14</sup>                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                               | <input type="checkbox"/> ZL027 –NOW<br>Intellect Power Control<br>Module <sup>16</sup>                                                                         | <input type="checkbox"/> EN- ALC-ZB-BK-DR<br>Wireless Area Lighting<br>Control Module <sup>17</sup><br><br><input type="checkbox"/> ZBHA-CLM-DIM-ENC<br>Connected Lighting<br>Module DIM <sup>17</sup>                                                                                                |                                                                                |                                                                                                                          |
| INTEGRAT<br>SENSOR                             | N/A                                                                                                                                                          | N/A                                                                                                                                                                                           | N/A                                                                                                                                                                                                                                                                                                                                                                                                                           | N/A                                                                                                                                                            | N/A                                                                                                                                                                                                                                                                                                   | N/A                                                                            | N/A                                                                                                                      |
| *WIRELESS<br>OCCUPANCY<br>SENSOR               | <input type="checkbox"/> EOSCU-W-EO<br>Occupancy Sensor<br>- Ceiling Mounted<br>(Must be specified<br>with LEDRU or<br>LEDDU control<br>unit) <sup>3</sup>   | N/A                                                                                                                                                                                           | N/A                                                                                                                                                                                                                                                                                                                                                                                                                           | N/A                                                                                                                                                            | N/A                                                                                                                                                                                                                                                                                                   | N/A                                                                            | <input type="checkbox"/> LMDC-100<br>Dual technology PIR<br>Ceiling Mount Occupancy<br>Sensor <sup>3</sup>               |
| *WIRELESS<br>DAYLIGHT<br>SENSOR                | <input type="checkbox"/> ELLSU-W-EO<br>Light Level Sensor -<br>Ceiling Mounted<br>(Must be specified<br>with LEDRU or<br>LEDDU control<br>unit) <sup>3</sup> | N/A                                                                                                                                                                                           | N/A                                                                                                                                                                                                                                                                                                                                                                                                                           | N/A                                                                                                                                                            | N/A                                                                                                                                                                                                                                                                                                   | N/A                                                                            | <input type="checkbox"/> LMLS-400<br>Single zone switching<br>and dimming digital<br>photosensor <sup>3</sup>            |
| *WIRELESS<br>OCCUPANCY<br>& DAYLIGHT<br>SENSOR | N/A                                                                                                                                                          | N/A                                                                                                                                                                                           | <input type="checkbox"/> SU-5E-IoT<br>IoT Node Micro Sensor <sup>3</sup><br><input type="checkbox"/> SU-5E-CL<br>Connected Lighting<br>Micro Sensor <sup>3</sup><br><input type="checkbox"/> SU-5E-IL<br>Independent Lighting /<br>Enlighted One Micro<br>Sensor <sup>3</sup><br><input type="checkbox"/> SU-5S-H-(IoT/CL/IL)<br>Surface Mount Sensor <sup>3</sup><br><br>(Must be specified with CU-<br>4E-FMH Control Unit) | <input type="checkbox"/> ZL00J -TOW<br>Intellect Intelligent Fixture<br>Control System <sup>3</sup><br><br>(Must be specified with<br>ZL027 –NOW Control Unit) | <input type="checkbox"/> EN-CLM-PIR-DD-ZB<br>SensiLUM™ Wireless<br>Integrated Sensor<br><input type="checkbox"/> EN-SCPPH-1500-ZB<br>Wireless Passive Infrared<br>Occupancy and Photo<br>Sensors <sup>3</sup><br><br>(Must be specified with<br>EN-WCM2-ZB-DR or EN-<br>ALC-ZB-BK-DR Control<br>Unit) | <input type="checkbox"/> SNS200-<br>CMP<br>SNS200 for<br>grouping <sup>3</sup> | N/A                                                                                                                      |
| ACCESSORIES                                    | N/A                                                                                                                                                          | N/A                                                                                                                                                                                           | <input type="checkbox"/> TMC-SU-5E<br>Tile Mount Carrier<br><input type="checkbox"/> CBL-5E-CU4-30N<br>30 inch Sensor Cable for<br>CU-4 and IoT Ready™<br>drivers<br><input type="checkbox"/> CBL-5E-CU4-7F<br>7 foot Sensor Cable for<br>CU-4 and IoT Ready™<br>drivers                                                                                                                                                      | N/A                                                                                                                                                            | N/A                                                                                                                                                                                                                                                                                                   | N/A                                                                            | N/A                                                                                                                      |
| NOTES                                          | N/A                                                                                                                                                          | 4- Luminaire will be compatible with Lutron LRF2-OCR2B-P-WH Ceiling mount 360° occupancy/vacancy sensor & LRF2-DCRB-WH Ceiling-mount daylight sensor. Sensors must be ordered through Lutron. | 5- Luminaire will be compatible with ENLIGHTED SU-5E-IoT, SU-5E-CL, SU-5E-IL, SU-5S-H, Sensors.                                                                                                                                                                                                                                                                                                                               | 6-Luminaire will be compatible with Leviton Intellect App & Keypad Room Controller                                                                             | 7-Luminaire will be compatible with EN-SCPPH-1500-ZB Wireless Passive Infrared Occupancy and Photo Sensors                                                                                                                                                                                            | 8-Luminaire will be compatible with Philips field and wireless switch.         | 9-Luminaire will be compatible with DLM Room control system LMPB-100. DLM control system must be orderd through Legrand. |