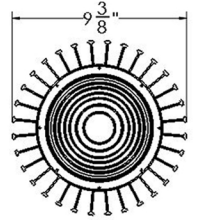


78° Pendant Light



ELECTRICAL ETL listed with Universal AC input 100 to 277 V. 50/60 Hz. Limited inrush current allows up to twelve fixtures on a 20 Amp circuit. Quiescent power is less than a Watt with fixture powered on and DMX at level zero. The LED driver has a 320,000 hour mean time between failures.

DIMMING CONTROL Extremely smooth DMX controlled dimming all the way to zero output level. Single channel DMX controlled, with up to 16.7 million interpolated steps from off to full intensity. 30,000 Hz output produces no flicker to the eye or video with either line scan or global shutter cameras. DMX input is fully isolated to 2500 Volts per microsecond. Three easy-to-use rotary switches for setting the DMX address.

LED MODULE The 60 individual Cree LEDs are carefully selected to maintain minimal color variance from fixture to fixture. Pleasing full spectrum light with all the visible colors represented. All LED modules and dimmers are manufactured at The Light Source in Charlotte, NC. Extensive production testing ensures over 105,000 hour life to L70. No appreciable IR or UV is produced by the LED module. The LED Module is field replaceable utilizing normal hand tools.

OPTICAL Single source LED emulates the look and feel of an incandescent fixture. 6" diameter tempered borosilicate glass Fresnel lens produces an extremely smooth light beam. The beam center intensity value spreads evenly to the edge of the beam with a small field, producing low glare.

THERMAL Incredible thermal management keeps the LEDs cool, providing increased brightness and Lumen maintenance. Maximum heat exchange provided with a huge passive convection-cooled aluminum heat sink. Silent operation with no fans to generate noise. Maximum ambient operating temperature is 122 degrees F (50 degrees C).

WARRANTY 10 year parts replacement on complete LED fixture and electronics. Ship the LED fixture to the factory freight prepaid. The LED fixture will be repaired or replaced at the factory's option, and returned freight prepaid. Fixture repair parts may also be sent for qualified repairs onsite.

Damage from improper wiring, installation, and lightning are excluded from warranty repair.

AGENCY RATINGS

ETL listed in US and Canada



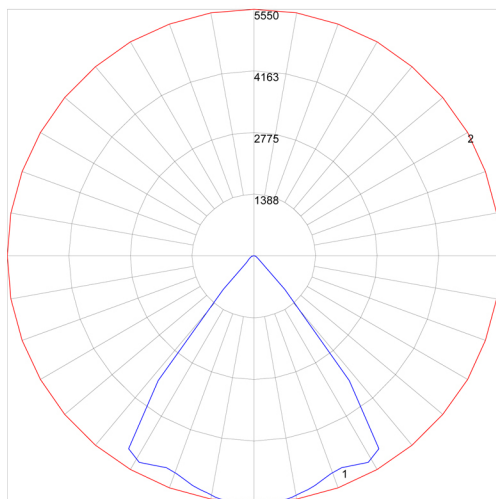
Catalog Number Example: HL100B78-30PXM

| FIXTURE SERIES | INPUT WATTAGE | FINISH | OPTICAL BEAM ANGLE | - | LED COLOR TEMPERATURE |
|----------------|---------------|------------------|--------------------|---------------------|-----------------------|
| HL Pendant | 100 | B Black Anodized | 78 | 78° 6" Fresnel lens | 27K 2700 Kelvin |
| | 120 | | 65 | 65° 6" Fresnel lens | 30K 3000 Kelvin |
| | 150 | | 52 | 52° 6" Fresnel lens | 35K 3500 Kelvin |
| | | | 44 | 44° 6" Fresnel lens | 40K 4000 Kelvin |
| | | | 36 | 36° 6" Fresnel lens | 50K 5000 Kelvin |
| | | | 30 | 30° 6" Fresnel lens | 56K 5600 Kelvin |
| | | | 25 | 25° 6" Fresnel lens | 60K 6000 Kelvin |
| | | | 20 | 20° 6" Fresnel lens | |

| POWER CONNECTION | DATA CONNECTION | FIXTURE SUPPORT METHOD | - | LED Module |
|-----------------------------------|---------------------------------|------------------------|---|------------|
| C Conduit into Fixture 100-277V | D DivCon System | C 1/2" Rigid Conduit | | |
| D DivCon System 100-277V | I IDC Plug on Header | D DivCon System | | |
| P Panel Mount Powercon 100-250V | J External RJ-45's | K 1/8" Wire Rope | | |
| R 1/2" Romex Cable Clamp 100-277V | N Non Dimming Fixture - No Data | M Mega-Clamp | | |
| W 18/3 SJO 72" Wire Whip 100-277V | T Screw Terminal Plug on Header | P Purlin Clamp | | |
| | W Wireless Lumen Radio Control | U 1/2" Adapter Post | | |
| | X External 5 Pin XLR's | V 3/8" Adapter Post | | |
| | Z External 3 Pin XLR's | | | |

78°
White

POLAR GRAPH



Maximum Candela = 5550 Located At Horizontal Angle = 0, Vertical Angle = 5
 # 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
 # 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 7966 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 80 |
| Total Luminaire Watts | 99.33 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.36 |
| Spacing Criterion (90-270) | 1.36 |
| Spacing Criterion (Diagonal) | 1.14 |
| Basic Luminous Shape | Circular |
| Luminous Length (0-180) | 0.48 ft (Diameter) |
| Luminous Width (90-270) | 0.48 ft (Diameter) |
| Luminous Height | 0.00 ft |

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 |
| 0 | 119 119 119 119 | 116 116 116 116 | 111 111 111 | 106 106 106 | 102 102 102 | 100 |
| 1 | 112 109 106 104 | 110 107 104 102 | 103 101 99 | 99 97 96 | 96 94 93 | 91 |
| 2 | 106 100 95 91 | 103 98 94 90 | 95 91 88 | 92 89 86 | 89 87 85 | 83 |
| 3 | 99 92 86 82 | 97 91 85 81 | 88 83 80 | 85 81 78 | 83 80 77 | 75 |
| 4 | 93 85 78 73 | 91 83 77 73 | 81 76 72 | 79 75 71 | 77 73 70 | 69 |
| 5 | 88 78 71 66 | 86 77 71 66 | 75 70 65 | 73 69 65 | 72 68 64 | 63 |
| 6 | 82 72 65 60 | 81 71 65 60 | 70 64 60 | 68 63 59 | 67 62 59 | 57 |
| 7 | 77 67 60 55 | 76 66 60 55 | 65 59 55 | 63 58 54 | 62 58 54 | 52 |
| 8 | 73 62 55 51 | 72 61 55 50 | 60 54 50 | 59 54 50 | 58 53 50 | 48 |
| 9 | 69 58 51 47 | 68 57 51 46 | 56 50 46 | 55 50 46 | 54 49 46 | 44 |
| 10 | 65 54 47 43 | 64 53 47 43 | 53 47 43 | 52 46 43 | 51 46 42 | 41 |

IES INDOOR REPORT

PHOTOMETRIC FILENAME :
L101404101R02.IES

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|------------------|---------------|----------------|----------------|
| 45 | 52948 | 52948 | 52948 |
| 55 | 12330 | 12330 | 12330 |
| 65 | 10968 | 10968 | 10968 |
| 75 | 11481 | 11481 | 11481 |
| 85 | 24547 | 24547 | 24547 |

CANDELA TABULATION

| | |
|-------------|------------------|
| 0.0 | 0 5496 |
| 1.0 | 5516 |
| 3.0 | 5544 |
| 5.0 | 5550 |
| 7.0 | 5544 |
| 9.0 | 5493 |
| 11.0 | 5440 |
| 13.0 | 5395 |
| 15.0 | 5342 |
| 17.0 | 5270 |
| 19.5 | 5198 |
| 22.5 | 5154 |
| 25.5 | 5221 |
| 29.0 | 5310 |
| 33.0 | 5168 |
| 37.5 | 3532 |
| 42.5 | 1025 |
| 47.5 | 235 |
| 55.0 | 119 |
| 65.0 | 78 |
| 75.0 | 50 |
| 85.0 | 36 |
| 90.0 | 0 |

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 1938.19 | N.A. | 24.30 |
| 0-30 | 4167.64 | N.A. | 52.30 |
| 0-40 | 6589.6 | N.A. | 82.70 |
| 0-60 | 7750.04 | N.A. | 97.30 |
| 0-80 | 7909.33 | N.A. | 99.30 |
| 0-90 | 7965.57 | N.A. | 100.00 |
| 10-90 | 7537.51 | N.A. | 94.60 |
| 20-40 | 4651.42 | N.A. | 58.40 |
| 20-50 | 5698.4 | N.A. | 71.50 |
| 40-70 | 1253.86 | N.A. | 15.70 |
| 60-80 | 159.29 | N.A. | 2.00 |
| 70-80 | 65.87 | N.A. | 0.80 |
| 80-90 | 56.24 | N.A. | 0.70 |
| 90-110 | 0.00 | N.A. | 0.00 |
| 90-120 | 0.00 | N.A. | 0.00 |
| 90-130 | 0.00 | N.A. | 0.00 |
| 90-150 | 0.00 | N.A. | 0.00 |
| 90-180 | 0.00 | N.A. | 0.00 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 7965.57 | N.A. | 100.00 |

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 428.06 |
| 10-20 | 1510.13 |
| 20-30 | 2229.45 |
| 30-40 | 2421.96 |
| 40-50 | 1046.98 |
| 50-60 | 113.45 |
| 60-70 | 93.43 |
| 70-80 | 65.87 |
| 80-90 | 56.24 |
| 90-100 | 0.00 |
| 100-110 | 0.00 |
| 110-120 | 0.00 |
| 120-130 | 0.00 |
| 130-140 | 0.00 |
| 140-150 | 0.00 |
| 150-160 | 0.00 |
| 160-170 | 0.00 |
| 170-180 | 0.00 |

Total Luminaire Efficiency = N.A.%