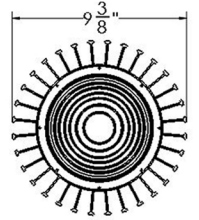


# 44° Pendant Light



**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



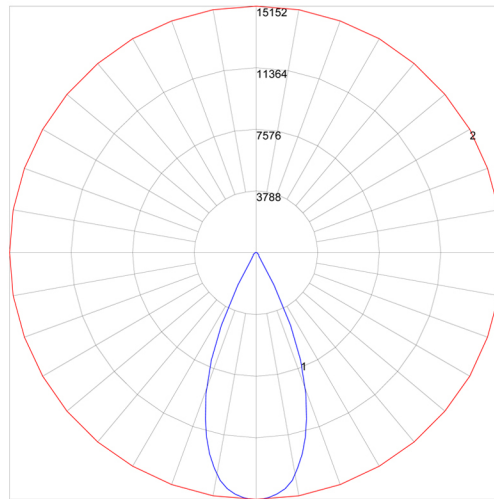
## Catalog Number Example: HL100B44-30PXM

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			

**44°**  
White

POLAR GRAPH



Maximum Candela = 15152 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7946
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	100.36
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.72
Spacing Criterion (90-270)	0.72
Spacing Criterion (Diagonal)	0.68
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	113 111 108 106	111 108 106 104	104 103 101	101 99 98	97 96 95	93
2	108 103 100 96	106 102 98 95	99 96 93	96 93 91	93 91 89	88
3	103 97 93 89	101 96 92 88	93 90 87	91 88 85	89 86 84	82
4	99 92 87 83	97 91 86 82	89 84 81	87 83 80	85 82 79	78
5	95 87 82 78	93 86 81 77	84 80 77	83 79 76	81 78 75	74
6	91 83 77 73	89 82 77 73	80 76 72	79 75 72	78 74 72	70
7	87 79 73 69	86 78 73 69	77 72 69	76 71 68	75 71 68	67
8	84 75 70 66	82 74 69 66	73 69 65	72 68 65	71 68 65	64
9	80 72 66 63	79 71 66 63	70 66 62	69 65 62	69 65 62	61
10	77 69 63 60	76 68 63 60	67 63 60	67 62 59	66 62 59	58

### IES INDOOR REPORT

PHOTOMETRIC FILENAME :  
L111403501R01.IES

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	20255	20255	20255
55	19168	19168	19168
65	15187	15187	15187
75	16302	16302	16302
85	30684	30684	30684

### CANDELA TABULATION

<b>0.0</b>	<b>0</b> 15152
<b>1.0</b>	15140
<b>3.0</b>	15059
<b>5.0</b>	14887
<b>7.0</b>	14610
<b>9.0</b>	14145
<b>11.0</b>	13481
<b>13.0</b>	12670
<b>15.0</b>	11735
<b>17.0</b>	10674
<b>19.5</b>	9208
<b>22.5</b>	7168
<b>25.5</b>	4936
<b>29.0</b>	2274
<b>33.0</b>	635
<b>37.5</b>	328
<b>42.5</b>	249
<b>47.5</b>	233
<b>55.0</b>	185
<b>65.0</b>	108
<b>75.0</b>	71
<b>85.0</b>	45
<b>90.0</b>	0

### ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4436.5	N.A.	55.80
0-30	6844.92	N.A.	86.10
0-40	7310.55	N.A.	92.00
0-60	7639.57	N.A.	96.10
0-80	7870.64	N.A.	99.10
0-90	7945.52	N.A.	100.00
10-90	6809.45	N.A.	85.70
20-40	2874.05	N.A.	36.20
20-50	3069.11	N.A.	38.60
40-70	467.98	N.A.	5.90
60-80	231.07	N.A.	2.90
70-80	92.11	N.A.	1.20
80-90	74.88	N.A.	0.90
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	7945.52	N.A.	100.00

### ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1136.07
10-20	3300.43
20-30	2408.42
30-40	465.64
40-50	195.06
50-60	133.96
60-70	138.95
70-80	92.11
80-90	74.88
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.%