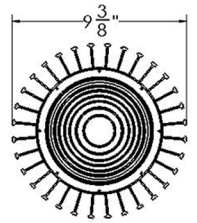


20° Pendant Light



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



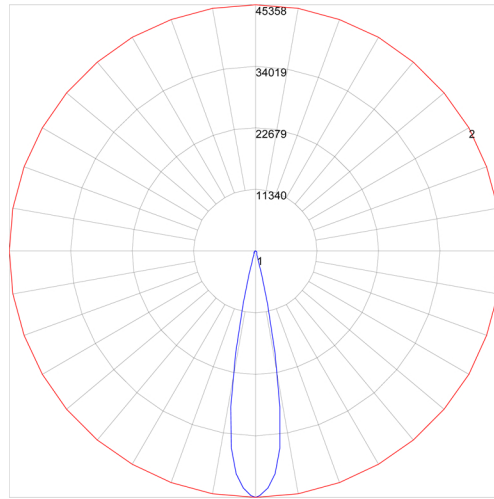
Catalog Number Example: HL100B20-30PXM

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		

20°
White

POLAR GRAPH



Maximum Candela = 45358 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	6576
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	65
Total Luminaire Watts	100.46
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.36
Spacing Criterion (90-270)	0.36
Spacing Criterion (Diagonal)	0.32
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	105	102	99	107	103	100	97	100	98	95	97	95	93	95	93	91	90
3	105	100	96	93	104	99	95	92	96	93	90	94	91	89	92	89	88	86
4	102	96	91	88	100	95	91	87	93	89	86	91	88	85	89	87	85	83
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81
6	96	89	85	81	95	88	84	81	87	83	81	86	83	80	85	82	80	78
7	93	87	82	79	92	86	82	79	85	81	78	84	80	78	83	80	78	76
8	91	84	80	77	90	84	80	77	83	79	76	82	78	76	81	78	76	75
9	89	82	78	75	88	82	78	75	81	77	75	80	77	74	79	76	74	73
10	87	80	76	73	86	80	76	73	79	75	73	78	75	73	78	75	73	72

IES INDOOR REPORT PHOTOMETRIC FILENAME :

L111403502R01.IES

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	27903	27903	27903
55	26731	26731	26731
65	21937	21937	21937
75	17910	17910	17910
85	30684	30684	30684

CANDELA TABULATION

	0
0.0	45358
1.0	45049
3.0	43706
5.0	41190
7.0	36572
9.0	29075
11.0	19232
13.0	9908
15.0	4376
17.0	2130
19.5	1142
22.5	766
25.5	587
29.0	449
33.0	397
37.5	431
42.5	362
47.5	302
55.0	258
65.0	156
75.0	78
85.0	45
90.0	0

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	5225.73	N.A.	79.50
0-30	5519.72	N.A.	83.90
0-40	5733.15	N.A.	87.20
0-60	6181.00	N.A.	94.00
0-80	6497.76	N.A.	98.80
0-90	6576.41	N.A.	100.00
10-90	3650.92	N.A.	55.50
20-40	507.42	N.A.	7.70
20-50	775.80	N.A.	11.80
40-70	644.19	N.A.	9.80
60-80	316.75	N.A.	4.80
70-80	120.41	N.A.	1.80
80-90	78.65	N.A.	1.20
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	6576.41	N.A.	100.00

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2925.5
10-20	2300.23
20-30	293.99
30-40	213.43
40-50	268.38
50-60	179.47
60-70	196.34
70-80	120.41
80-90	78.65
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.%