

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P867207

Luminaire Tested: PRLX-2004-L-927-32L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867207
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-84)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-L-927-32L-L-X-X-WHHR-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

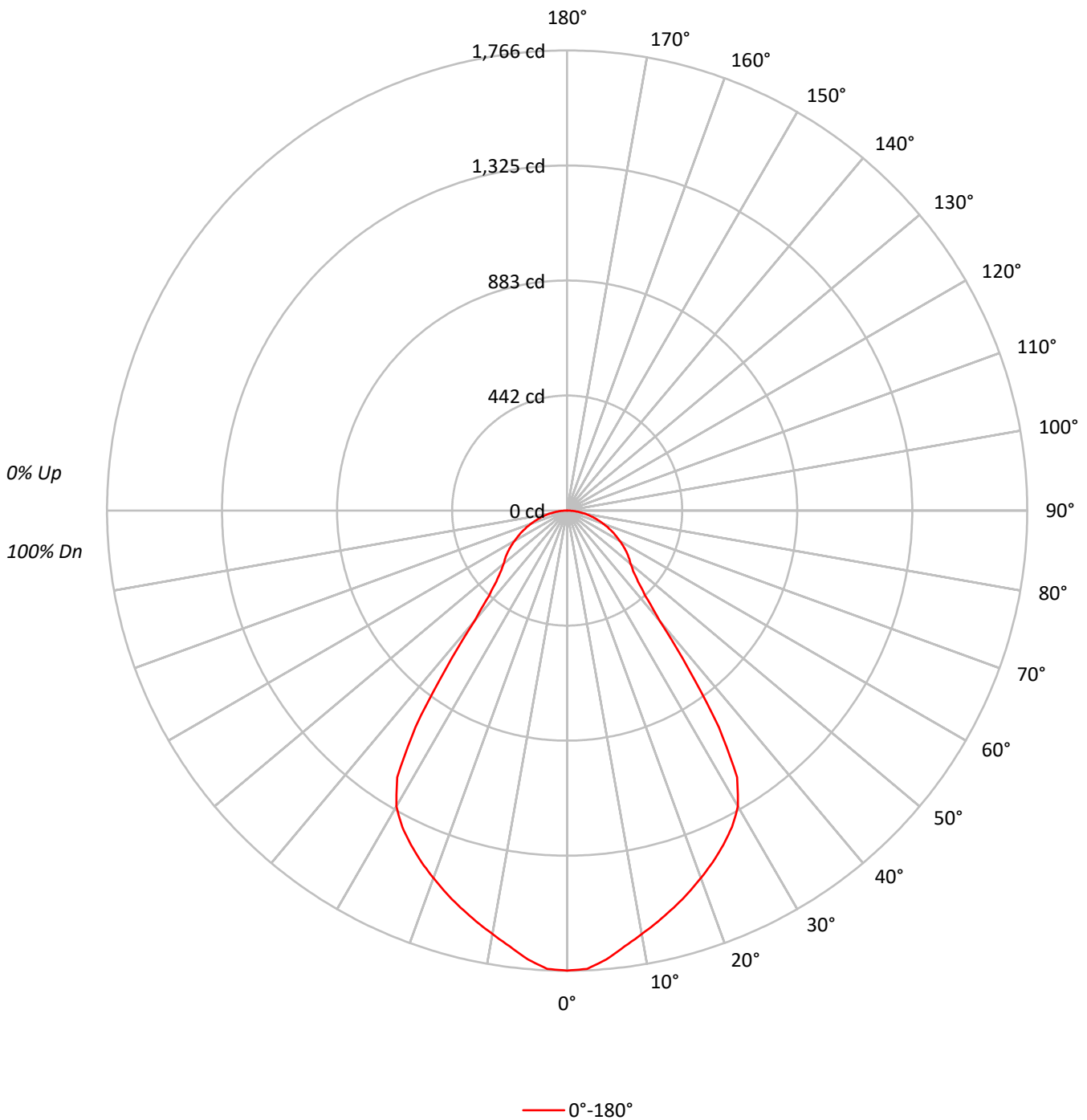
Lumens per Lamp: N/A
Luminaire Lumens: 2760.3 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.05
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 26.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	111	107	103	100	108	105	101	98	100	98	95		97	94	92		93	91	90	88
2	103	96	90	85	100	94	89	84	91	86	82		87	84	81		85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	72		80	75	71		77	73	70	68
4	89	79	71	66	87	77	70	65	75	69	64		73	68	63		71	66	63	61
5	83	72	64	59	81	71	64	58	69	63	58		67	61	57		65	60	57	55
6	78	66	58	53	76	65	58	53	63	57	52		62	56	52		60	55	51	50
7	73	61	53	48	71	60	53	48	59	52	48		57	52	47		56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44		53	48	43		52	47	43	41
9	64	53	45	40	63	52	45	40	51	45	40		50	44	40		49	44	40	38
10	61	49	42	37	60	49	42	37	48	41	37		47	41	37		46	41	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	8711
5°	8564
10°	8266
15°	8060
20°	7880
25°	7711
30°	7467
35°	6114
40°	3550
45°	2685
50°	2440
55°	2398
60°	2313
65°	2220
70°	2132
75°	2040
80°	1952
85°	1874

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2685 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.4	5.9
10°-20°	444.9	16.1
20°-30°	651.6	23.6
30°-40°	605.8	21.9
40°-50°	308.7	11.2
50°-60°	248.3	9.0
60°-70°	188.5	6.8
70°-80°	113.6	4.1
80°-90°	36.5	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1258.9	45.6
0°-40°	1864.7	67.6
0°-60°	2421.7	87.7
0°-90°	2760.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2760.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1766	
5°	1729	162
15°	1578	445
25°	1416	652
35°	1015	606
45°	385	309
55°	279	248
65°	190	189
75°	107	114
85°	33	37
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1765.5
2.5°	1760.3
5°	1729.1
7.5°	1687.2
10°	1650.0
12.5°	1614.6
15°	1577.9
17.5°	1540.7
20°	1500.9
22.5°	1460.6
25°	1416.4
27.5°	1369.9
30°	1310.7
32.5°	1213.3
35°	1015.1
37.5°	761.8
40°	551.2
42.5°	443.2
45°	384.8
47.5°	343.7
50°	317.9
52.5°	299.2
55°	278.8
57.5°	256.1
60°	234.4
62.5°	211.9
65°	190.2
67.5°	168.7
70°	147.8
72.5°	127.4
75°	107.0
77.5°	87.9
80°	68.7
82.5°	50.9
85°	33.1
87.5°	15.8
90°	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	13.50	14.85	13.86	15.17	15.48	13.50	14.85	13.86	15.17	15.48
	3H	15.30	16.51	15.68	16.84	17.20	15.30	16.51	15.68	16.84	17.20
	4H	16.01	17.14	16.41	17.49	17.87	16.01	17.14	16.41	17.49	17.87
	6H	16.57	17.61	16.98	17.98	18.38	16.57	17.61	16.98	17.98	18.38
	8H	16.77	17.76	17.20	18.15	18.56	16.77	17.76	17.20	18.15	18.56
	12H	16.91	17.86	17.34	18.25	18.68	16.91	17.86	17.34	18.25	18.68
4H	2H	14.09	15.22	14.49	15.57	15.96	14.09	15.22	14.49	15.57	15.96
	3H	16.11	17.05	16.52	17.46	17.86	16.11	17.05	16.52	17.46	17.86
	4H	16.95	17.80	17.38	18.22	18.66	16.95	17.80	17.38	18.22	18.66
	6H	17.65	18.38	18.11	18.83	19.29	17.65	18.38	18.11	18.83	19.29
	8H	17.90	18.59	18.37	19.04	19.51	17.90	18.59	18.37	19.04	19.51
	12H	18.10	18.71	18.58	19.19	19.66	18.10	18.71	18.58	19.19	19.66
8H	4H	17.25	17.94	17.72	18.39	18.86	17.25	17.94	17.72	18.39	18.86
	6H	18.10	18.66	18.60	19.16	19.64	18.10	18.66	18.60	19.16	19.64
	8H	18.44	18.95	18.96	19.46	19.95	18.44	18.95	18.96	19.46	19.95
	12H	18.74	19.18	19.25	19.68	20.24	18.74	19.18	19.25	19.68	20.24
12H	4H	17.28	17.89	17.77	18.37	18.85	17.28	17.89	17.77	18.37	18.85
	6H	18.16	18.67	18.68	19.18	19.67	18.16	18.67	18.68	19.18	19.67
	8H	18.57	19.02	19.09	19.51	20.08	18.57	19.02	19.09	19.51	20.08