

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: P866779

Luminaire Tested: PRLX-2001-L-930-67L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-62)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2001-L-930-67L-G-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

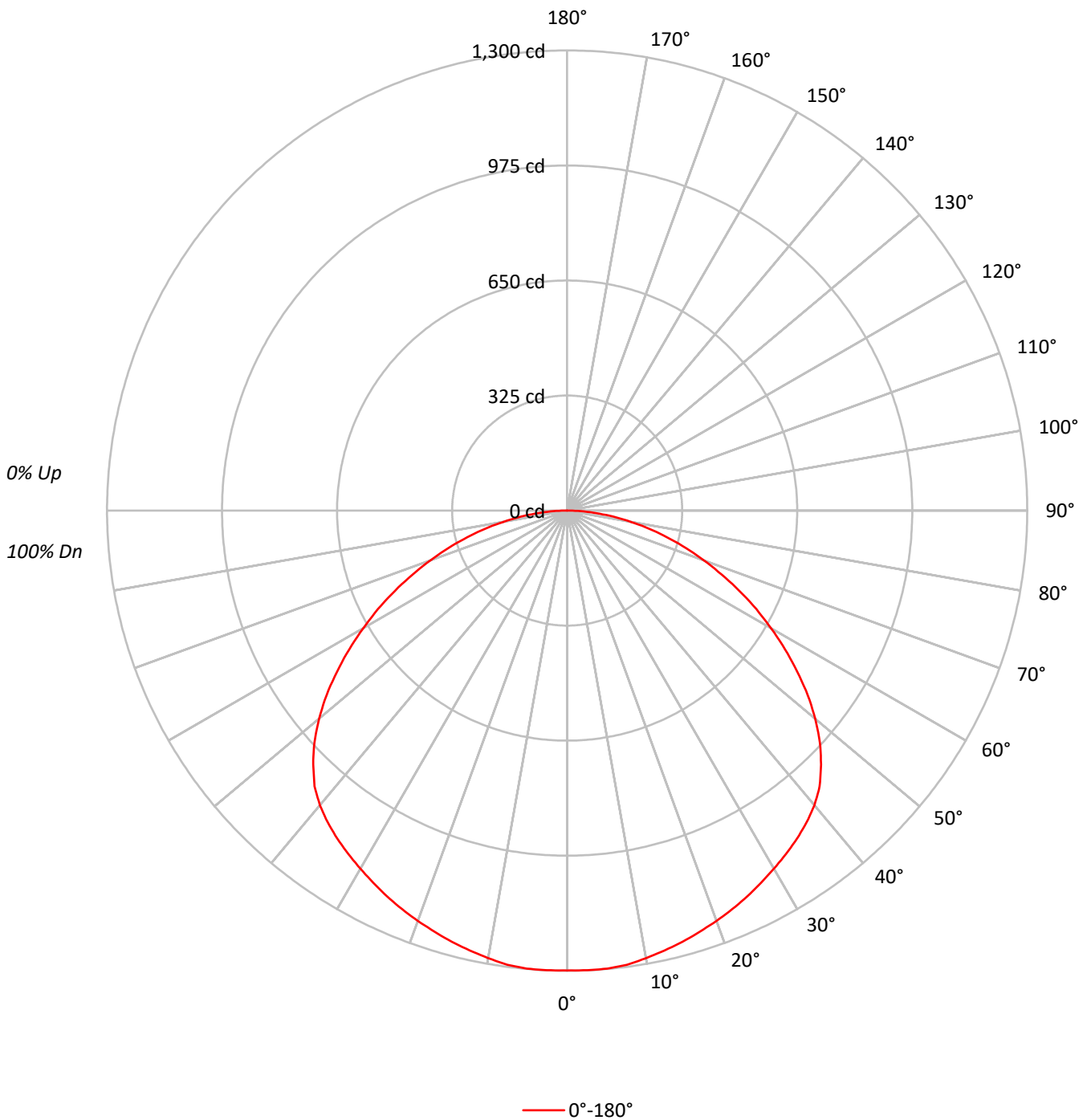
Lumens per Lamp: N/A
Luminaire Lumens: 4169.8 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.48
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 50.4
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: 0.333 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	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	60		68	64	59	57
4	81	69	60	53	79	68	59	53	65	58	52		63	56	51		61	55	51	48
5	75	62	52	45	73	60	52	45	58	51	45		56	49	44		54	48	44	42
6	69	55	46	39	67	54	46	39	52	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	34	47	40	34		46	39	34		45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41	35	30	28
9	55	42	33	28	54	41	33	27	40	32	27		39	32	27		38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25		36	29	25		35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7101
5°	7129
10°	7126
15°	7136
20°	7177
25°	7256
30°	7374
35°	7553
40°	7756
45°	7844
50°	7783
55°	7562
60°	7275
65°	6945
70°	6573
75°	6174
80°	5749
85°	5137

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7844 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.5	3.0
10°-20°	356.4	8.5
20°-30°	555.5	13.3
30°-40°	709.0	17.0
40°-50°	780.4	18.7
50°-60°	709.1	17.0
60°-70°	531.9	12.8
70°-80°	310.9	7.5
80°-90°	93.1	2.2
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°	1035.4	24.8
0°-40°	1744.4	41.8
0°-60°	3233.9	77.6
0°-90°	4169.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4169.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1299	
5°	1299	124
15°	1261	356
25°	1203	556
35°	1132	709
45°	1015	780
55°	793	709
65°	537	532
75°	292	311
85°	82	93
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1299.0
2.5°	1299.6
5°	1299.0
7.5°	1294.4
10°	1283.6
12.5°	1272.8
15°	1260.9
17.5°	1247.2
20°	1233.6
22.5°	1218.8
25°	1202.9
27.5°	1185.8
30°	1168.2
32.5°	1150.5
35°	1131.8
37.5°	1110.7
40°	1086.8
42.5°	1056.1
45°	1014.6
47.5°	968.6
50°	915.1
52.5°	857.1
55°	793.4
57.5°	730.3
60°	665.4
62.5°	602.3
65°	536.9
67.5°	472.6
70°	411.2
72.5°	352.0
75°	292.3
77.5°	237.7
80°	182.6
82.5°	130.8
85°	81.9
87.5°	38.1
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	19.29	20.96	19.65	21.28	21.59	19.29	20.96	19.65	21.28	21.59
	3H	21.06	22.58	21.44	22.91	23.27	21.06	22.58	21.44	22.91	23.27
	4H	21.75	23.18	22.14	23.53	23.90	21.75	23.18	22.14	23.53	23.90
	6H	22.28	23.61	22.69	23.97	24.36	22.28	23.61	22.69	23.97	24.36
	8H	22.46	23.73	22.89	24.12	24.52	22.46	23.73	22.89	24.12	24.52
	12H	22.59	23.81	23.02	24.19	24.62	22.59	23.81	23.02	24.19	24.62
4H	2H	19.92	21.35	20.31	21.70	22.07	19.92	21.35	20.31	21.70	22.07
	3H	21.92	23.12	22.33	23.52	23.92	21.92	23.12	22.33	23.52	23.92
	4H	22.74	23.83	23.17	24.24	24.68	22.74	23.83	23.17	24.24	24.68
	6H	23.41	24.36	23.86	24.80	25.26	23.41	24.36	23.86	24.80	25.26
	8H	23.64	24.54	24.10	24.98	25.44	23.64	24.54	24.10	24.98	25.44
	12H	23.82	24.63	24.30	25.10	25.57	23.82	24.63	24.30	25.10	25.57
8H	4H	23.07	23.96	23.53	24.41	24.87	23.07	23.96	23.53	24.41	24.87
	6H	23.87	24.62	24.36	25.10	25.58	23.87	24.62	24.36	25.10	25.58
	8H	24.19	24.86	24.69	25.36	25.85	24.19	24.86	24.69	25.36	25.85
	12H	24.45	25.04	24.95	25.53	26.09	24.45	25.04	24.95	25.53	26.09
12H	4H	23.11	23.92	23.59	24.39	24.86	23.11	23.92	23.59	24.39	24.86
	6H	23.94	24.61	24.44	25.12	25.60	23.94	24.61	24.44	25.12	25.60
	8H	24.32	24.91	24.82	25.40	25.96	24.32	24.91	24.82	25.40	25.96