

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: P866723

Luminaire Tested: PRLX-2001-L-927-83L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866723
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: Prenalux
Catalog Number: PRLX-2001-L-927-83L-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 5
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

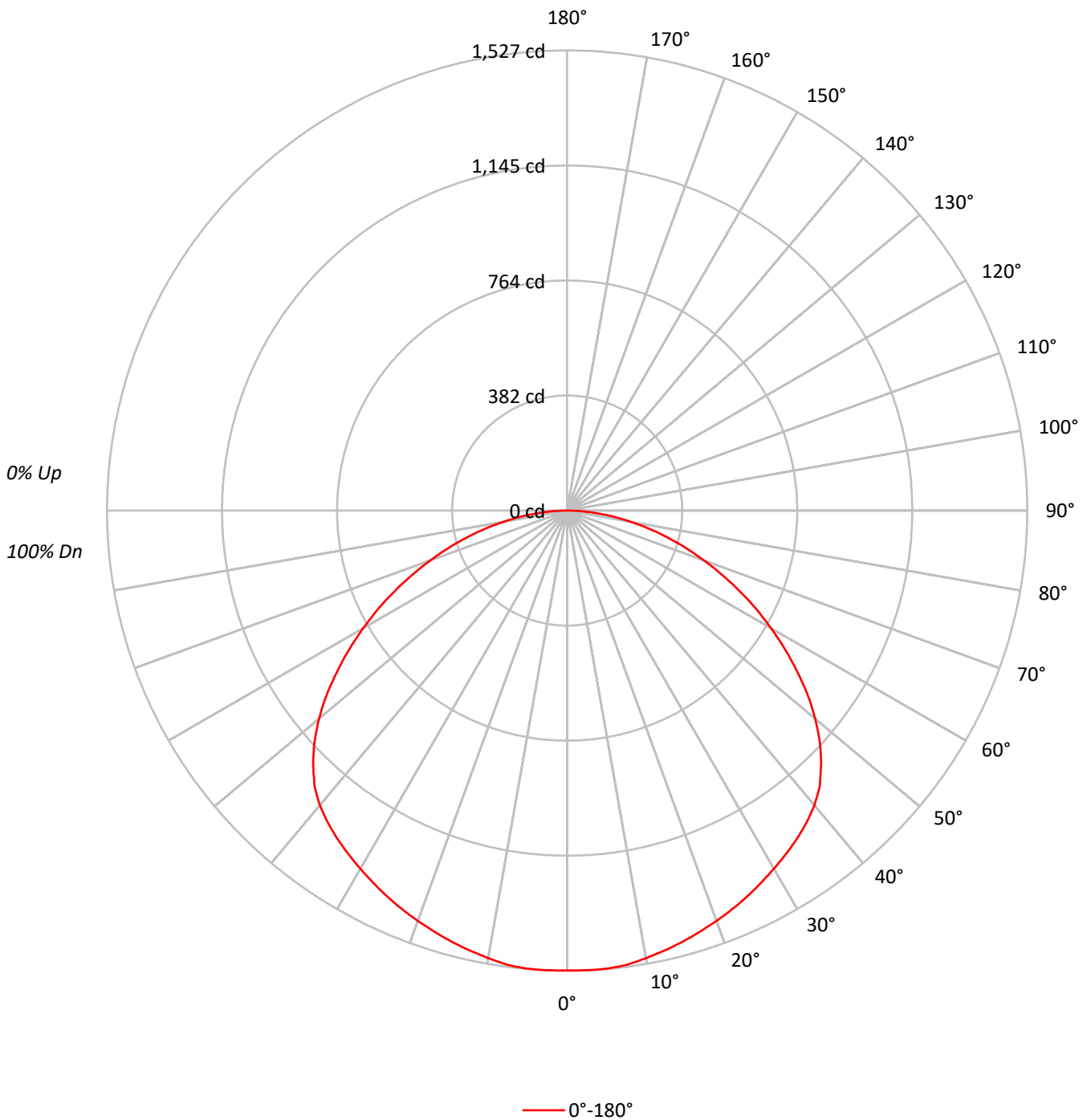
Lumens per Lamp: N/A
Luminaire Lumens: 4898.4 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.48
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 64.5
Input Voltage (V): 120
Input Current (Ain): 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°	8342
5°	8374
10°	8371
15°	8383
20°	8430
25°	8523
30°	8663
35°	8873
40°	9111
45°	9215
50°	9143
55°	8883
60°	8547
65°	8159
70°	7720
75°	7253
80°	6753
85°	6034

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9215 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.1	3.0
10°-20°	418.7	8.5
20°-30°	652.6	13.3
30°-40°	832.8	17.0
40°-50°	916.8	18.7
50°-60°	832.9	17.0
60°-70°	624.9	12.8
70°-80°	365.3	7.5
80°-90°	109.4	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°	1216.3	24.8
0°-40°	2049.2	41.8
0°-60°	3798.9	77.6
0°-90°	4898.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4898.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1526	
5°	1526	145
15°	1481	419
25°	1413	653
35°	1330	833
45°	1192	917
55°	932	833
65°	631	625
75°	343	365
85°	96	109
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1525.9
2.5°	1526.6
5°	1525.9
7.5°	1520.6
10°	1507.9
12.5°	1495.2
15°	1481.2
17.5°	1465.1
20°	1449.1
22.5°	1431.7
25°	1413.0
27.5°	1393.0
30°	1372.3
32.5°	1351.6
35°	1329.5
37.5°	1304.8
40°	1276.7
42.5°	1240.7
45°	1191.9
47.5°	1137.8
50°	1075.0
52.5°	1006.8
55°	932.0
57.5°	857.8
60°	781.7
62.5°	707.5
65°	630.7
67.5°	555.2
70°	483.0
72.5°	413.6
75°	343.4
77.5°	279.3
80°	214.5
82.5°	153.7
85°	96.2
87.5°	44.8
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	19.85	21.52	20.21	21.84	22.15	19.85	21.52	20.21	21.84	22.15
	3H	21.62	23.14	22.00	23.47	23.83	21.62	23.14	22.00	23.47	23.83
	4H	22.31	23.74	22.70	24.09	24.46	22.31	23.74	22.70	24.09	24.46
	6H	22.84	24.17	23.25	24.53	24.92	22.84	24.17	23.25	24.53	24.92
	8H	23.02	24.29	23.45	24.68	25.08	23.02	24.29	23.45	24.68	25.08
	12H	23.15	24.37	23.58	24.75	25.18	23.15	24.37	23.58	24.75	25.18
4H	2H	20.47	21.91	20.87	22.25	22.63	20.47	21.91	20.87	22.25	22.63
	3H	22.48	23.68	22.89	24.08	24.48	22.48	23.68	22.89	24.08	24.48
	4H	23.30	24.39	23.73	24.80	25.24	23.30	24.39	23.73	24.80	25.24
	6H	23.97	24.92	24.42	25.36	25.82	23.97	24.92	24.42	25.36	25.82
	8H	24.20	25.10	24.66	25.54	26.00	24.20	25.10	24.66	25.54	26.00
	12H	24.38	25.19	24.86	25.66	26.13	24.38	25.19	24.86	25.66	26.13
8H	4H	23.63	24.52	24.09	24.96	25.43	23.63	24.52	24.09	24.96	25.43
	6H	24.43	25.18	24.92	25.66	26.14	24.43	25.18	24.92	25.66	26.14
	8H	24.75	25.42	25.25	25.92	26.41	24.75	25.42	25.25	25.92	26.41
	12H	25.01	25.60	25.51	26.09	26.65	25.01	25.60	25.51	26.09	26.65
12H	4H	23.67	24.48	24.15	24.95	25.42	23.67	24.48	24.15	24.95	25.42
	6H	24.50	25.17	25.00	25.67	26.16	24.50	25.17	25.00	25.67	26.16
	8H	24.88	25.47	25.38	25.96	26.52	24.88	25.47	25.38	25.96	26.52