

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: P866851

Luminaire Tested: PRLX-2001-L-935-83L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866851
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-935-83L-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

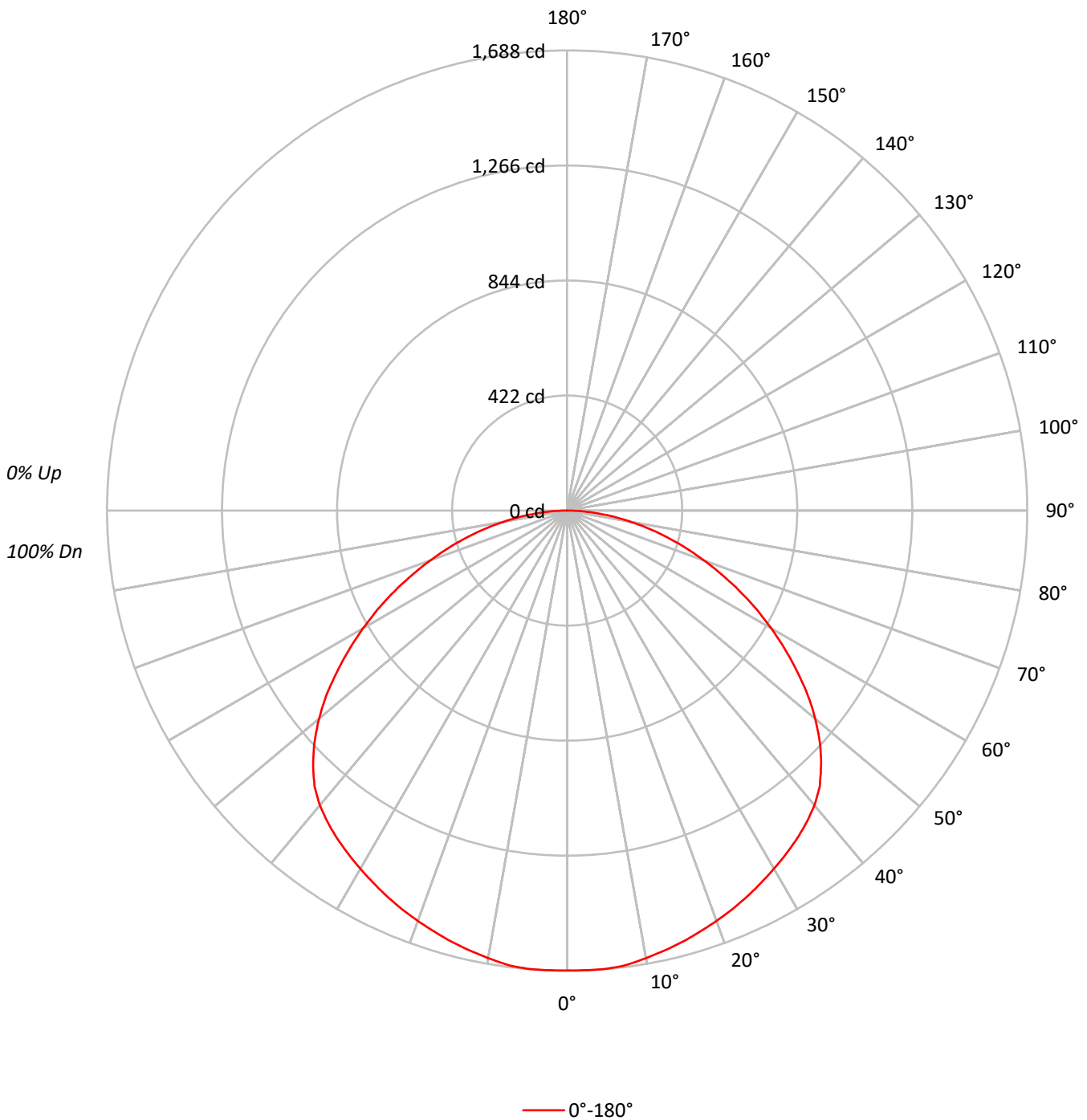
Lumens per Lamp: N/A
Luminaire Lumens: 5415.3 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.48
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

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°	9223
5°	9258
10°	9254
15°	9268
20°	9320
25°	9423
30°	9577
35°	9809
40°	10073
45°	10188
50°	10107
55°	9821
60°	9449
65°	9019
70°	8535
75°	8018
80°	7464
85°	6674

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10188 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.4	3.0
10°-20°	462.9	8.5
20°-30°	721.4	13.3
30°-40°	920.7	17.0
40°-50°	1013.5	18.7
50°-60°	920.9	17.0
60°-70°	690.8	12.8
70°-80°	403.8	7.5
80°-90°	120.9	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°	1344.7	24.8
0°-40°	2265.4	41.8
0°-60°	4199.8	77.6
0°-90°	5415.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5415.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1687	
5°	1687	160
15°	1638	463
25°	1562	721
35°	1470	921
45°	1318	1014
55°	1030	921
65°	697	691
75°	380	404
85°	106	121
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1687.0
2.5°	1687.7
5°	1687.0
7.5°	1681.1
10°	1667.0
12.5°	1653.0
15°	1637.5
17.5°	1619.8
20°	1602.0
22.5°	1582.8
25°	1562.2
27.5°	1540.0
30°	1517.1
32.5°	1494.2
35°	1469.8
37.5°	1442.5
40°	1411.5
42.5°	1371.6
45°	1317.7
47.5°	1257.8
50°	1188.4
52.5°	1113.1
55°	1030.4
57.5°	948.4
60°	864.2
62.5°	782.2
65°	697.2
67.5°	613.8
70°	534.0
72.5°	457.2
75°	379.6
77.5°	308.7
80°	237.1
82.5°	169.9
85°	106.4
87.5°	49.5
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	20.20	21.87	20.56	22.19	22.50	20.20	21.87	20.56	22.19	22.50
	3H	21.97	23.49	22.35	23.81	24.17	21.97	23.49	22.35	23.81	24.17
	4H	22.65	24.09	23.05	24.43	24.81	22.65	24.09	23.05	24.43	24.81
	6H	23.19	24.52	23.60	24.88	25.27	23.19	24.52	23.60	24.88	25.27
	8H	23.37	24.64	23.79	25.03	25.43	23.37	24.64	23.79	25.03	25.43
	12H	23.50	24.72	23.93	25.10	25.53	23.50	24.72	23.93	25.10	25.53
4H	2H	20.82	22.26	21.22	22.60	22.98	20.82	22.26	21.22	22.60	22.98
	3H	22.83	24.03	23.24	24.43	24.83	22.83	24.03	23.24	24.43	24.83
	4H	23.65	24.74	24.08	25.15	25.58	23.65	24.74	24.08	25.15	25.58
	6H	24.32	25.27	24.77	25.71	26.17	24.32	25.27	24.77	25.71	26.17
	8H	24.55	25.45	25.01	25.89	26.35	24.55	25.45	25.01	25.89	26.35
	12H	24.73	25.54	25.21	26.01	26.48	24.73	25.54	25.21	26.01	26.48
8H	4H	23.98	24.87	24.43	25.31	25.78	23.98	24.87	24.43	25.31	25.78
	6H	24.78	25.53	25.27	26.01	26.49	24.78	25.53	25.27	26.01	26.49
	8H	25.09	25.76	25.60	26.27	26.75	25.09	25.76	25.60	26.27	26.75
	12H	25.35	25.95	25.86	26.44	27.00	25.35	25.95	25.86	26.44	27.00
12H	4H	24.02	24.83	24.50	25.30	25.77	24.02	24.83	24.50	25.30	25.77
	6H	24.85	25.52	25.35	26.02	26.51	24.85	25.52	25.35	26.02	26.51
	8H	25.22	25.82	25.73	26.31	26.87	25.22	25.82	25.73	26.31	26.87