

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: P865935

Luminaire Tested: PRLX-2001-M-927-55L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-927-55L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

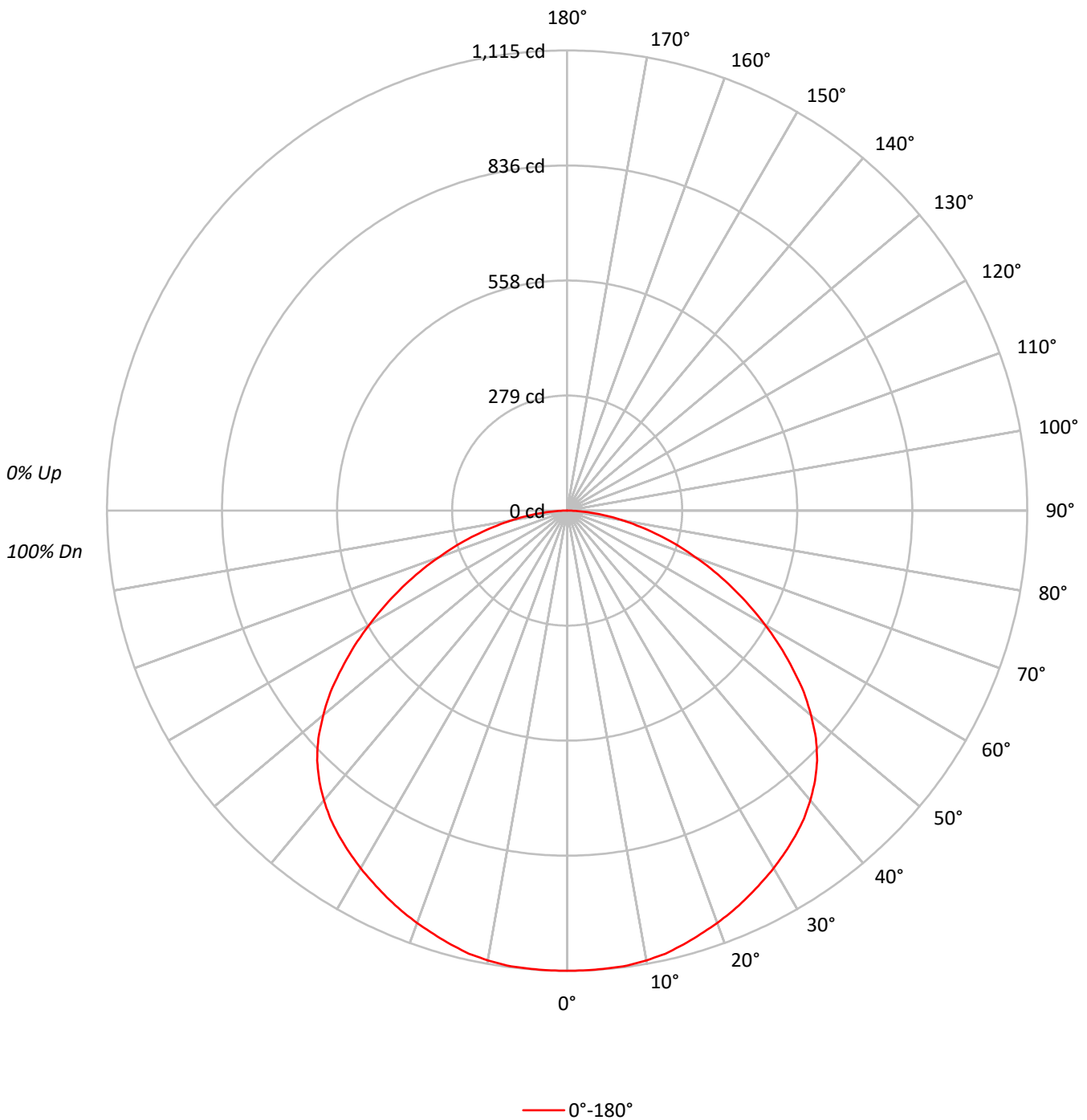
Lumens per Lamp: N/A
Luminaire Lumens: 3495.5 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.47
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 48.3
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	109	104	99	95	106	101	97	94	97	94	91		93	91	88		90	88	86	83
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39		51	44	39		50	44	39	37
7	64	50	41	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		41	35	31	29
9	56	42	34	28	54	41	33	28	40	33	28		39	32	28		38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	9462
5°	9486
10°	9535
15°	9563
20°	9603
25°	9683
30°	9805
35°	9975
40°	10156
45°	10282
50°	10188
55°	9870
60°	9402
65°	8855
70°	8205
75°	7551
80°	6685
85°	5433

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10282 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.1	3.0
10°-20°	307.6	8.8
20°-30°	477.4	13.7
30°-40°	603.0	17.3
40°-50°	658.3	18.8
50°-60°	595.6	17.0
60°-70°	437.0	12.5
70°-80°	244.1	7.0
80°-90°	66.4	1.9
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°	891.1	25.5
0°-40°	1494.1	42.7
0°-60°	2748.0	78.6
0°-90°	3495.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3495.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1115	
5°	1114	106
15°	1088	308
25°	1034	477
35°	963	603
45°	857	658
55°	667	596
65°	441	437
75°	230	244
85°	56	66
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1115.0
2.5°	1115.0
5°	1113.6
7.5°	1112.2
10°	1106.6
12.5°	1099.7
15°	1088.5
17.5°	1075.9
20°	1063.4
22.5°	1049.4
25°	1034.1
27.5°	1017.3
30°	1000.6
32.5°	982.4
35°	962.9
37.5°	942.0
40°	916.8
42.5°	888.9
45°	856.8
47.5°	817.8
50°	771.7
52.5°	722.9
55°	667.1
57.5°	611.2
60°	554.0
62.5°	496.8
65°	441.0
67.5°	386.6
70°	330.7
72.5°	280.5
75°	230.3
77.5°	181.4
80°	136.8
82.5°	94.9
85°	55.8
87.5°	25.1
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	20.21	21.87	20.57	22.18	22.50	20.21	21.87	20.57	22.18	22.50
	3H	21.90	23.40	22.27	23.73	24.09	21.90	23.40	22.27	23.73	24.09
	4H	22.52	23.94	22.92	24.29	24.66	22.52	23.94	22.92	24.29	24.66
	6H	22.98	24.29	23.39	24.66	25.05	22.98	24.29	23.39	24.66	25.05
	8H	23.12	24.38	23.55	24.77	25.17	23.12	24.38	23.55	24.77	25.17
	12H	23.21	24.42	23.64	24.80	25.23	23.21	24.42	23.64	24.80	25.23
4H	2H	20.81	22.23	21.21	22.57	22.95	20.81	22.23	21.21	22.57	22.95
	3H	22.72	23.91	23.13	24.31	24.70	22.72	23.91	23.13	24.31	24.70
	4H	23.47	24.55	23.91	24.96	25.40	23.47	24.55	23.91	24.96	25.40
	6H	24.06	25.00	24.51	25.44	25.89	24.06	25.00	24.51	25.44	25.89
	8H	24.25	25.13	24.70	25.57	26.03	24.25	25.13	24.70	25.57	26.03
	12H	24.38	25.17	24.86	25.65	26.11	24.38	25.17	24.86	25.65	26.11
8H	4H	23.77	24.65	24.23	25.09	25.56	23.77	24.65	24.23	25.09	25.56
	6H	24.47	25.20	24.96	25.69	26.16	24.47	25.20	24.96	25.69	26.16
	8H	24.73	25.39	25.23	25.89	26.38	24.73	25.39	25.23	25.89	26.38
	12H	24.93	25.51	25.43	26.00	26.56	24.93	25.51	25.43	26.00	26.56
12H	4H	23.80	24.60	24.28	25.07	25.54	23.80	24.60	24.28	25.07	25.54
	6H	24.52	25.18	25.03	25.68	26.17	24.52	25.18	25.03	25.68	26.17
	8H	24.83	25.42	25.34	25.91	26.47	24.83	25.42	25.34	25.91	26.47