

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: P866191

Luminaire Tested: PRLX-2002-M-927-55L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866191
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-38)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-2002-M-927-55L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

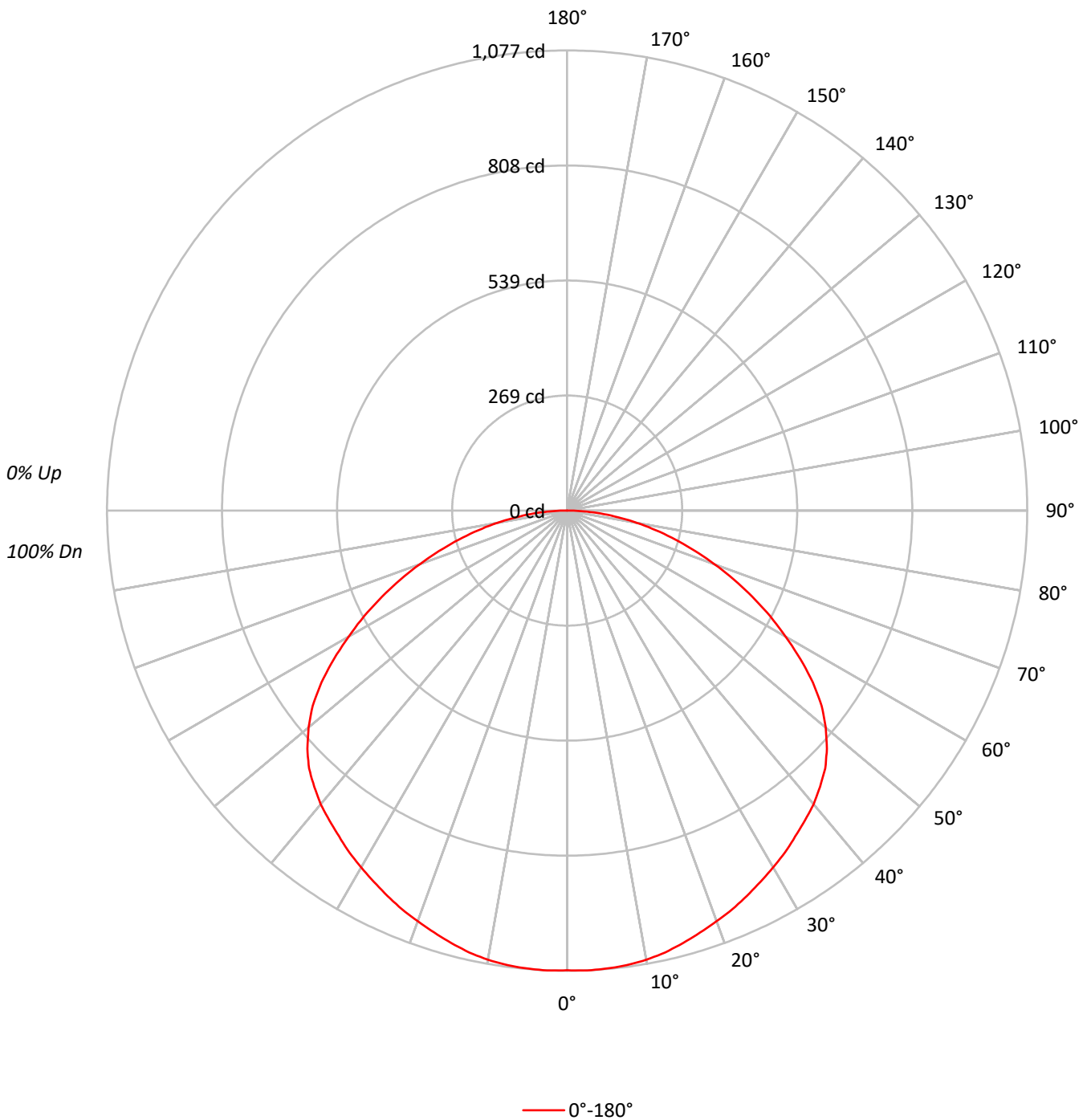
Lumens per Lamp: N/A
Luminaire Lumens: 3563.1 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.5
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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	108	103	99	94	105	101	97	93	96	93	90		93	90	87		89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	60		68	63	59	56
4	81	68	59	52	79	67	59	52	65	57	51		62	56	50		60	54	50	48
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33		45	38	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		41	35	30		40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27		38	31	26		37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24		35	29	24		34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	8560
5°	8592
10°	8625
15°	8632
20°	8660
25°	8734
30°	8859
35°	9040
40°	9319
45°	9610
50°	9777
55°	9736
60°	9393
65°	9011
70°	8537
75°	8066
80°	7610
85°	7129

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 9812 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.4	2.9
10°-20°	296.1	8.3
20°-30°	459.6	12.9
30°-40°	584.1	16.4
40°-50°	656.9	18.4
50°-60°	624.1	17.5
60°-70°	474.1	13.3
70°-80°	278.6	7.8
80°-90°	87.1	2.4
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°	858.1	24.1
0°-40°	1442.3	40.5
0°-60°	2723.3	76.4
0°-90°	3563.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3563.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1076	
5°	1076	102
15°	1048	296
25°	995	460
35°	931	584
45°	854	657
55°	702	624
65°	479	474
75°	262	279
85°	78	87
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1075.9
2.5°	1077.3
5°	1075.9
7.5°	1073.1
10°	1067.6
12.5°	1059.2
15°	1048.0
17.5°	1035.5
20°	1022.9
22.5°	1010.3
25°	995.0
27.5°	979.6
30°	964.3
32.5°	948.9
35°	930.8
37.5°	914.1
40°	897.3
42.5°	876.4
45°	854.1
47.5°	824.7
50°	789.9
52.5°	750.8
55°	701.9
57.5°	647.5
60°	590.3
62.5°	535.9
65°	478.7
67.5°	422.8
70°	367.0
72.5°	314.0
75°	262.4
77.5°	213.5
80°	166.1
82.5°	120.0
85°	78.1
87.5°	39.1
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	20.28	21.97	20.64	22.29	22.60	20.28	21.97	20.64	22.29	22.60
	3H	22.08	23.61	22.45	23.94	24.30	22.08	23.61	22.45	23.94	24.30
	4H	22.77	24.22	23.17	24.57	24.94	22.77	24.22	23.17	24.57	24.94
	6H	23.32	24.67	23.73	25.03	25.42	23.32	24.67	23.73	25.03	25.42
	8H	23.51	24.80	23.93	25.19	25.59	23.51	24.80	23.93	25.19	25.59
	12H	23.66	24.89	24.08	25.27	25.70	23.66	24.89	24.08	25.27	25.70
4H	2H	20.91	22.37	21.31	22.71	23.09	20.91	22.37	21.31	22.71	23.09
	3H	22.94	24.16	23.35	24.56	24.96	22.94	24.16	23.35	24.56	24.96
	4H	23.77	24.88	24.20	25.29	25.72	23.77	24.88	24.20	25.29	25.72
	6H	24.46	25.43	24.91	25.87	26.32	24.46	25.43	24.91	25.87	26.32
	8H	24.71	25.62	25.17	26.06	26.52	24.71	25.62	25.17	26.06	26.52
	12H	24.91	25.73	25.38	26.20	26.67	24.91	25.73	25.38	26.20	26.67
8H	4H	24.11	25.02	24.57	25.46	25.92	24.11	25.02	24.57	25.46	25.92
	6H	24.93	25.69	25.42	26.18	26.65	24.93	25.69	25.42	26.18	26.65
	8H	25.27	25.95	25.77	26.45	26.94	25.27	25.95	25.77	26.45	26.94
	12H	25.55	26.16	26.06	26.65	27.21	25.55	26.16	26.06	26.65	27.21
12H	4H	24.15	24.98	24.63	25.45	25.92	24.15	24.98	24.63	25.45	25.92
	6H	25.01	25.69	25.51	26.19	26.68	25.01	25.69	25.51	26.19	26.68
	8H	25.40	26.01	25.91	26.50	27.06	25.40	26.01	25.91	26.50	27.06