

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: P866190

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866190
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-40)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-927-55L-G-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

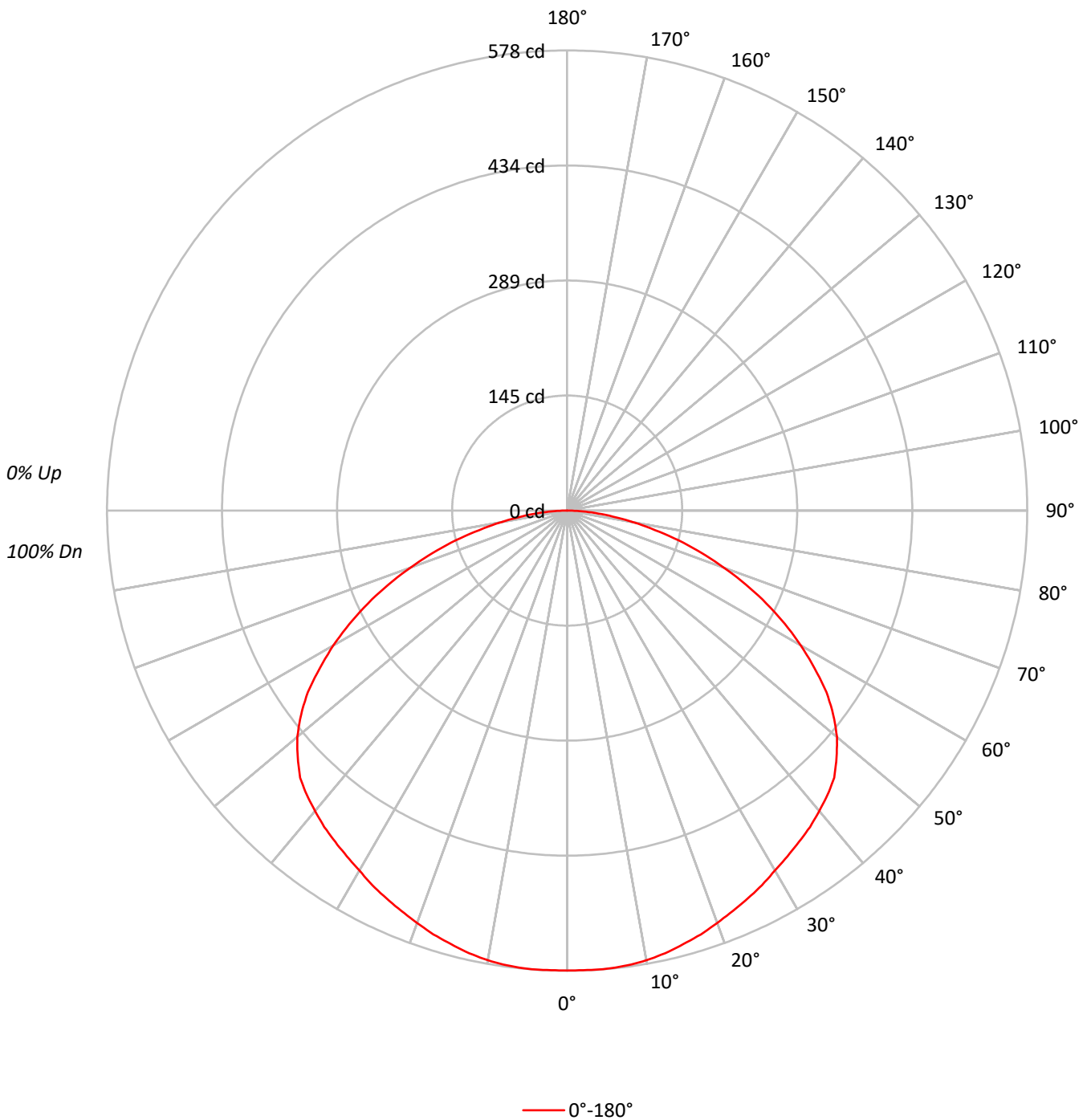
Lumens per Lamp: N/A
Luminaire Lumens: 1966.2 lumens
Efficiency: N/A
Efficacy: 40.7 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.53
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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: 0.5 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	105	101	97	93	97	93	90		93	90	87		89	87	85	83
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	59		68	63	58	56
4	81	68	59	52	78	67	58	52	64	57	51		62	55	50		60	54	49	47
5	74	61	51	44	72	59	51	44	57	49	44		55	48	43		53	47	43	40
6	68	54	45	38	66	53	44	38	51	44	38		50	43	37		48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33		45	38	33		44	37	33	31
8	58	44	36	30	57	44	35	30	42	35	29		41	34	29		40	34	29	27
9	55	41	32	26	53	40	32	26	39	31	26		38	31	26		37	31	26	24
10	51	37	29	24	50	37	29	24	36	29	24		35	28	24		34	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4596
5°	4614
10°	4634
15°	4644
20°	4667
25°	4717
30°	4794
35°	4934
40°	5116
45°	5339
50°	5476
55°	5516
60°	5396
65°	5201
70°	4869
75°	4460
80°	3899
85°	3186

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 5516 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.0	2.8
10°-20°	159.4	8.1
20°-30°	248.2	12.6
30°-40°	318.6	16.2
40°-50°	364.5	18.5
50°-60°	353.1	18.0
60°-70°	272.6	13.9
70°-80°	153.6	7.8
80°-90°	41.2	2.1
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°	462.6	23.5
0°-40°	781.3	39.7
0°-60°	1498.8	76.2
0°-90°	1966.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1966.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	578	
5°	578	55
15°	564	159
25°	537	248
35°	508	319
45°	474	364
55°	398	353
65°	276	273
75°	145	154
85°	35	41
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	577.7
2.5°	577.7
5°	577.7
7.5°	576.3
10°	573.6
12.5°	569.4
15°	563.8
17.5°	558.2
20°	551.2
22.5°	544.2
25°	537.3
27.5°	530.3
30°	521.9
32.5°	514.9
35°	508.0
37.5°	501.0
40°	492.6
42.5°	484.2
45°	474.5
47.5°	459.1
50°	442.4
52.5°	421.4
55°	397.7
57.5°	368.4
60°	339.1
62.5°	308.4
65°	276.3
67.5°	242.8
70°	209.3
72.5°	177.2
75°	145.1
77.5°	113.0
80°	85.1
82.5°	58.6
85°	34.9
87.5°	15.4
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	18.42	20.12	18.78	20.44	20.75	18.42	20.12	18.78	20.44	20.75
	3H	20.24	21.78	20.61	22.11	22.47	20.24	21.78	20.61	22.11	22.47
	4H	20.90	22.36	21.30	22.70	23.08	20.90	22.36	21.30	22.70	23.08
	6H	21.36	22.72	21.77	23.08	23.47	21.36	22.72	21.77	23.08	23.47
	8H	21.51	22.80	21.93	23.19	23.59	21.51	22.80	21.93	23.19	23.59
	12H	21.60	22.85	22.03	23.23	23.65	21.60	22.85	22.03	23.23	23.65
4H	2H	19.08	20.54	19.48	20.88	21.26	19.08	20.54	19.48	20.88	21.26
	3H	21.11	22.33	21.51	22.73	23.13	21.11	22.33	21.51	22.73	23.13
	4H	21.89	23.01	22.32	23.42	23.85	21.89	23.01	22.32	23.42	23.85
	6H	22.48	23.45	22.93	23.89	24.35	22.48	23.45	22.93	23.89	24.35
	8H	22.67	23.58	23.13	24.03	24.49	22.67	23.58	23.13	24.03	24.49
	12H	22.81	23.63	23.29	24.10	24.57	22.81	23.63	23.29	24.10	24.57
8H	4H	22.20	23.12	22.66	23.56	24.02	22.20	23.12	22.66	23.56	24.02
	6H	22.91	23.67	23.40	24.15	24.63	22.91	23.67	23.40	24.15	24.63
	8H	23.17	23.85	23.67	24.35	24.84	23.17	23.85	23.67	24.35	24.84
	12H	23.37	23.97	23.88	24.46	25.02	23.37	23.97	23.88	24.46	25.02
12H	4H	22.24	23.06	22.72	23.54	24.00	22.24	23.06	22.72	23.54	24.00
	6H	22.96	23.65	23.47	24.15	24.63	22.96	23.65	23.47	24.15	24.63
	8H	23.28	23.88	23.78	24.37	24.93	23.28	23.88	23.78	24.37	24.93