

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: P866451

Luminaire Tested: PRLX-2004-M-927-55L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866451
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-M-927-55L-L-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

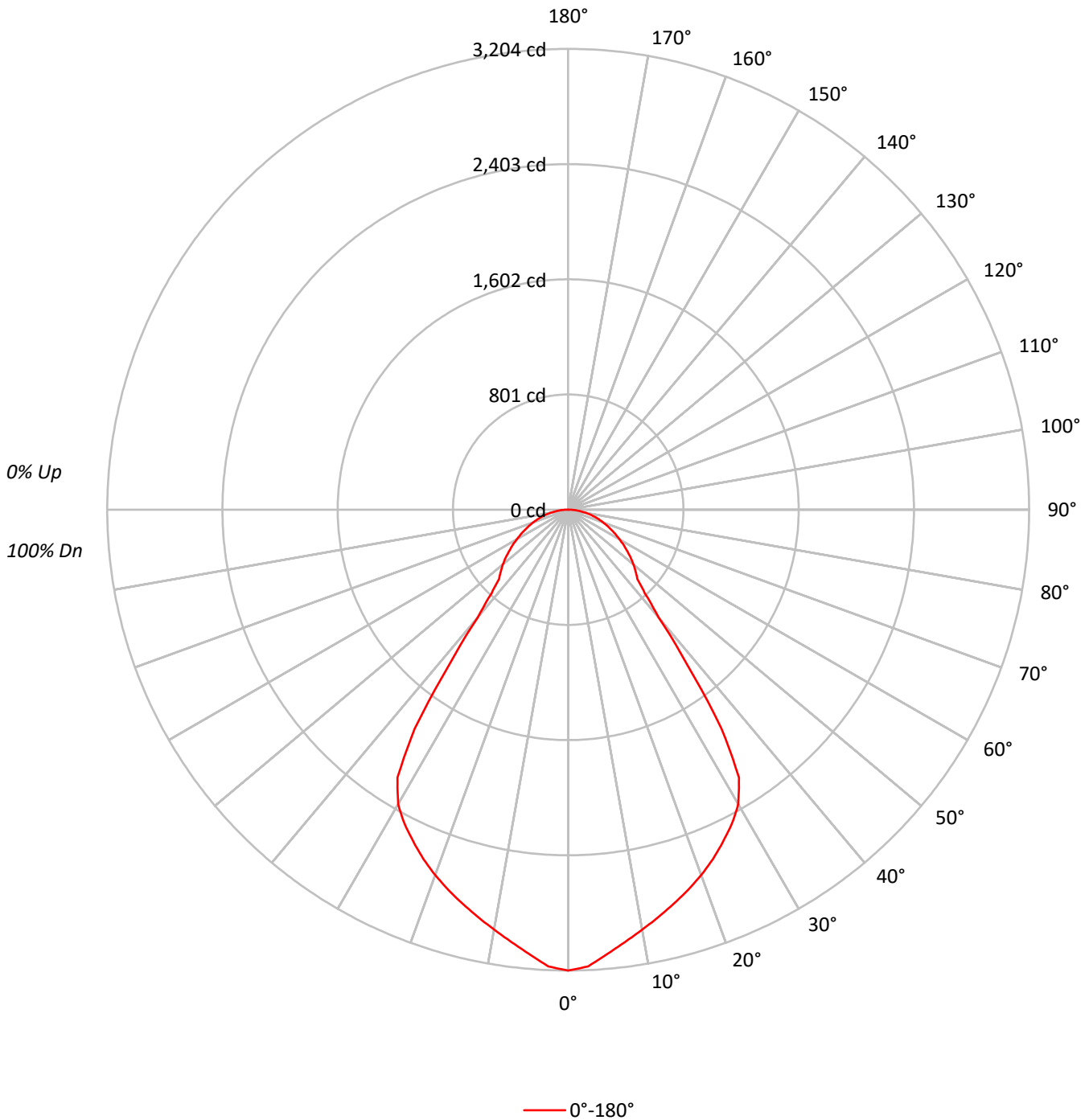
Lumens per Lamp: N/A
Luminaire Lumens: 4961.3 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 48.3
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: 0.5 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	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68
4	89	79	71	66	87	77	71	65	75	69	64	73	68	64	71	66	63	61
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	25491
5°	24763
10°	23945
15°	23356
20°	22885
25°	22356
30°	21717
35°	18053
40°	10160
45°	7646
50°	7341
55°	6949
60°	6551
65°	6225
70°	6006
75°	5834
80°	5690
85°	5605

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7646 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.9	5.9
10°-20°	799.9	16.1
20°-30°	1172.6	23.6
30°-40°	1095.4	22.1
40°-50°	555.5	11.2
50°-60°	448.5	9.0
60°-70°	329.8	6.6
70°-80°	200.6	4.0
80°-90°	67.0	1.4
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°	2264.4	45.6
0°-40°	3359.8	67.7
0°-60°	4363.9	88.0
0°-90°	4961.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4961.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3204	
5°	3101	292
15°	2836	800
25°	2547	1173
35°	1859	1095
45°	680	556
55°	501	449
65°	331	330
75°	190	201
85°	61	67
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	3204.1
2.5°	3177.6
5°	3100.8
7.5°	3031.0
10°	2964.1
12.5°	2899.9
15°	2835.7
17.5°	2771.5
20°	2703.1
22.5°	2629.1
25°	2546.8
27.5°	2463.1
30°	2364.0
32.5°	2207.7
35°	1858.8
37.5°	1355.0
40°	978.3
42.5°	788.5
45°	679.6
47.5°	635.0
50°	593.1
52.5°	547.0
55°	501.0
57.5°	456.3
60°	411.7
62.5°	372.6
65°	330.7
67.5°	294.5
70°	258.2
72.5°	223.3
75°	189.8
77.5°	156.3
80°	124.2
82.5°	92.1
85°	61.4
87.5°	30.7
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	17.13	18.48	17.50	18.80	19.11	17.13	18.48	17.50	18.80	19.11
	3H	18.87	20.08	19.25	20.41	20.78	18.87	20.08	19.25	20.41	20.78
	4H	19.58	20.72	19.98	21.07	21.45	19.58	20.72	19.98	21.07	21.45
	6H	20.16	21.20	20.57	21.57	21.97	20.16	21.20	20.57	21.57	21.97
	8H	20.37	21.36	20.80	21.75	22.16	20.37	21.36	20.80	21.75	22.16
	12H	20.53	21.48	20.96	21.86	22.29	20.53	21.48	20.96	21.86	22.29
4H	2H	17.69	18.82	18.09	19.17	19.55	17.69	18.82	18.09	19.17	19.55
	3H	19.66	20.61	20.08	21.01	21.41	19.66	20.61	20.08	21.01	21.41
	4H	20.51	21.36	20.95	21.78	22.22	20.51	21.36	20.95	21.78	22.22
	6H	21.23	21.97	21.69	22.41	22.88	21.23	21.97	21.69	22.41	22.88
	8H	21.50	22.19	21.97	22.63	23.10	21.50	22.19	21.97	22.63	23.10
	12H	21.71	22.32	22.20	22.81	23.28	21.71	22.32	22.20	22.81	23.28
8H	4H	20.82	21.51	21.29	21.95	22.42	20.82	21.51	21.29	21.95	22.42
	6H	21.69	22.25	22.19	22.75	23.23	21.69	22.25	22.19	22.75	23.23
	8H	22.05	22.56	22.57	23.07	23.56	22.05	22.56	22.57	23.07	23.56
	12H	22.37	22.81	22.88	23.31	23.88	22.37	22.81	22.88	23.31	23.88
12H	4H	20.85	21.46	21.34	21.94	22.42	20.85	21.46	21.34	21.94	22.42
	6H	21.76	22.26	22.28	22.78	23.27	21.76	22.26	22.28	22.78	23.27
	8H	22.19	22.63	22.70	23.13	23.70	22.19	22.63	22.70	23.13	23.70