

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: P866445

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866445
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-43)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-M-927-55L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
BELL WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

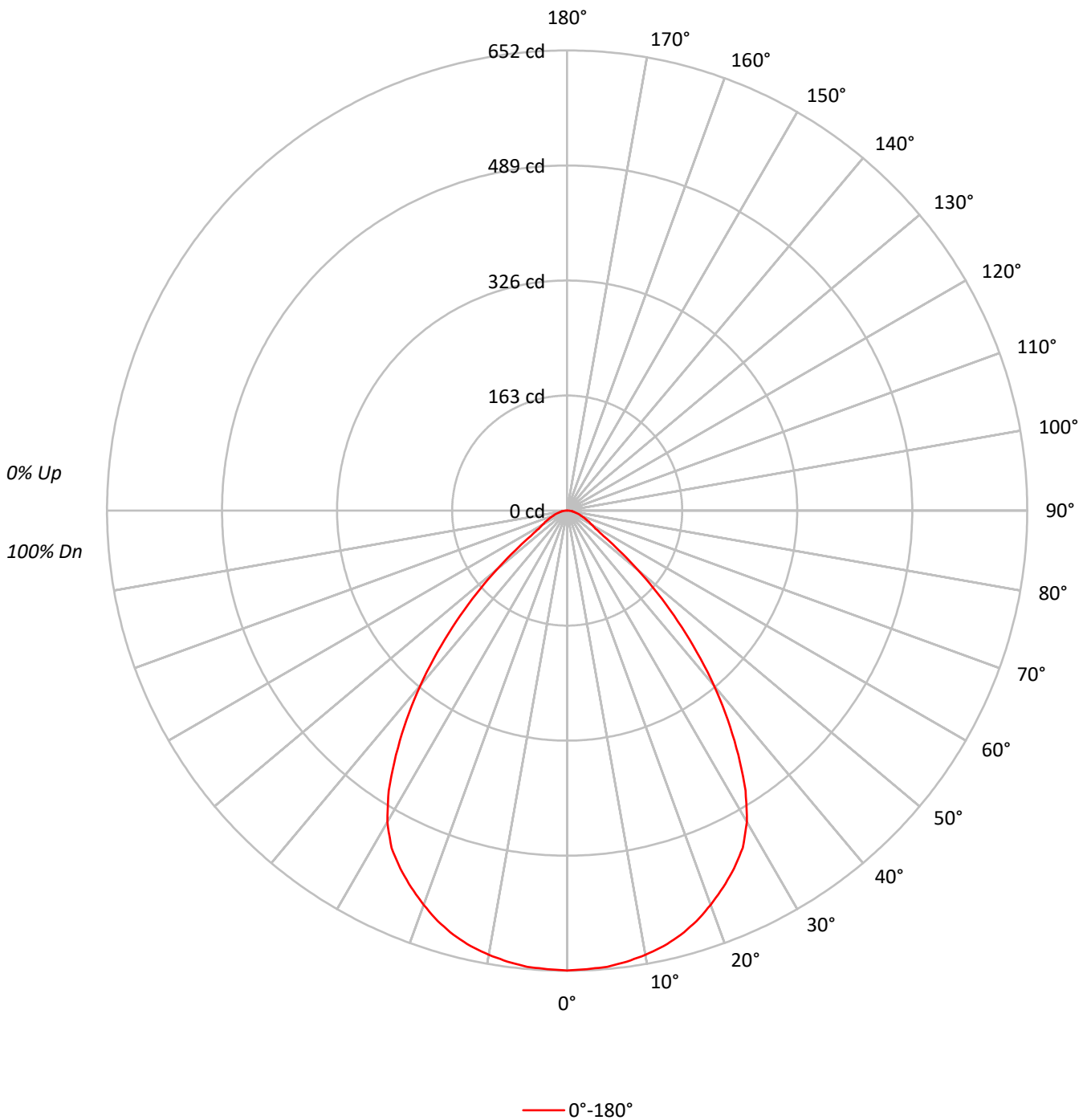
Lumens per Lamp: N/A
Luminaire Lumens: 1040.5 lumens
Efficiency: N/A
Efficacy: 21.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.14
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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	112	108	105	103	109	106	103	101	102	100	98		98	97	95		95	93	92	90
2	105	99	94	89	102	97	92	88	93	90	86		90	87	84		88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77		83	79	75		81	77	74	72
4	91	82	75	70	89	81	74	70	79	73	69		76	72	68		74	70	67	65
5	85	75	68	63	84	74	67	62	72	66	62		70	65	61		69	64	61	59
6	80	69	62	57	78	68	61	56	67	61	56		65	60	56		64	59	55	53
7	75	64	57	52	74	63	56	51	62	56	51		60	55	51		59	54	50	49
8	71	59	52	47	69	59	52	47	57	51	47		56	51	46		55	50	46	45
9	66	55	48	43	65	54	48	43	53	47	43		52	47	43		51	46	43	41
10	63	51	44	40	62	51	44	40	50	44	40		49	43	39		48	43	39	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5185
5°	5182
10°	5163
15°	5126
20°	5033
25°	4912
30°	4680
35°	4106
40°	3363
45°	2497
50°	1607
55°	871
60°	644
65°	552
70°	486
75°	430
80°	385
85°	383

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2497 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.6	5.9
10°-20°	175.2	16.8
20°-30°	256.7	24.7
30°-40°	262.1	25.2
40°-50°	171.3	16.5
50°-60°	63.7	6.1
60°-70°	29.7	2.9
70°-80°	15.3	1.5
80°-90°	5.0	0.5
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°	493.5	47.4
0°-40°	755.6	72.6
0°-60°	990.6	95.2
0°-90°	1040.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1040.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	652	
5°	649	62
15°	622	175
25°	560	257
35°	423	262
45°	222	171
55°	63	64
65°	29	30
75°	14	15
85°	4	5
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	651.7
2.5°	650.3
5°	648.9
7.5°	644.7
10°	639.1
12.5°	632.2
15°	622.4
17.5°	609.8
20°	594.5
22.5°	577.7
25°	559.6
27.5°	538.7
30°	509.4
32.5°	470.3
35°	422.8
37.5°	374.0
40°	323.8
42.5°	272.1
45°	221.9
47.5°	174.4
50°	129.8
52.5°	92.1
55°	62.8
57.5°	47.4
60°	40.5
62.5°	34.9
65°	29.3
67.5°	25.1
70°	20.9
72.5°	18.1
75°	14.0
77.5°	11.2
80°	8.4
82.5°	7.0
85°	4.2
87.5°	2.8
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	6.92	8.17	7.28	8.49	8.80	6.92	8.17	7.28	8.49	8.80
	3H	8.11	9.22	8.49	9.55	9.92	8.11	9.22	8.49	9.55	9.92
	4H	8.55	9.58	8.95	9.93	10.32	8.55	9.58	8.95	9.93	10.32
	6H	8.86	9.81	9.28	10.18	10.57	8.86	9.81	9.28	10.18	10.57
	8H	8.99	9.89	9.42	10.28	10.68	8.99	9.89	9.42	10.28	10.68
	12H	9.08	9.93	9.51	10.32	10.75	9.08	9.93	9.51	10.32	10.75
4H	2H	7.28	8.32	7.69	8.67	9.05	7.28	8.32	7.69	8.67	9.05
	3H	8.70	9.54	9.11	9.94	10.35	8.70	9.54	9.11	9.94	10.35
	4H	9.24	10.00	9.68	10.42	10.86	9.24	10.00	9.68	10.42	10.86
	6H	9.67	10.32	10.14	10.77	11.23	9.67	10.32	10.14	10.77	11.23
	8H	9.85	10.45	10.32	10.90	11.37	9.85	10.45	10.32	10.90	11.37
	12H	9.99	10.52	10.47	11.00	11.48	9.99	10.52	10.47	11.00	11.48
8H	4H	9.41	10.01	9.88	10.46	10.93	9.41	10.01	9.88	10.46	10.93
	6H	9.95	10.44	10.45	10.94	11.42	9.95	10.44	10.45	10.94	11.42
	8H	10.21	10.66	10.74	11.17	11.67	10.21	10.66	10.74	11.17	11.67
	12H	10.43	10.83	10.95	11.32	11.89	10.43	10.83	10.95	11.32	11.89
12H	4H	9.41	9.94	9.89	10.42	10.90	9.41	9.94	9.89	10.42	10.90
	6H	9.97	10.42	10.50	10.93	11.43	9.97	10.42	10.50	10.93	11.43
	8H	10.30	10.69	10.82	11.19	11.76	10.30	10.69	10.82	11.19	11.76