

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: P866961

Luminaire Tested: PRLX-2002-L-927-48L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866961
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-69)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-L-927-48L-G-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

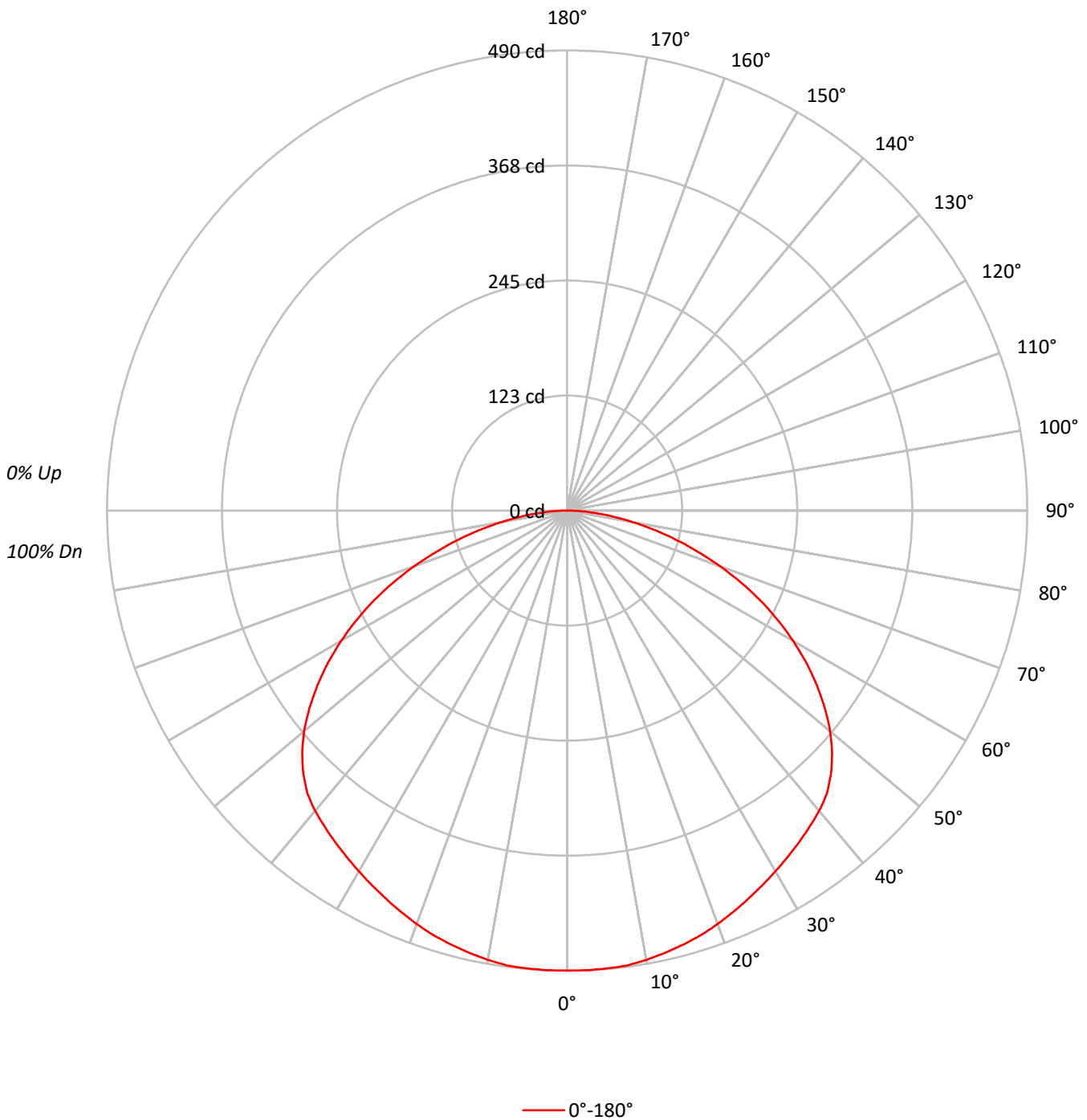
Lumens per Lamp: N/A
Luminaire Lumens: 1645.0 lumens
Efficiency: N/A
Efficacy: 43.9 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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	65	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	51	45	72	60	51	44	58	50	44		55	49	43		54	48	43	41
6	68	54	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	34	29		40	34	29	27
9	55	41	32	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	28	24		34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2417
5°	2424
10°	2434
15°	2443
20°	2459
25°	2483
30°	2527
35°	2595
40°	2689
45°	2772
50°	2807
55°	2793
60°	2744
65°	2656
70°	2496
75°	2289
80°	2043
85°	1676

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 2807 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.6	2.8
10°-20°	135.2	8.2
20°-30°	210.8	12.8
30°-40°	270.3	16.4
40°-50°	305.5	18.6
50°-60°	289.7	17.6
60°-70°	224.4	13.6
70°-80°	127.6	7.8
80°-90°	35.0	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°	392.6	23.9
0°-40°	662.9	40.3
0°-60°	1258.1	76.5
0°-90°	1645.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1645.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	490	
5°	489	47
15°	478	135
25°	456	211
35°	431	270
45°	397	306
55°	325	290
65°	228	224
75°	120	128
85°	30	35
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	489.8
2.5°	489.8
5°	489.4
7.5°	488.6
10°	485.8
12.5°	482.3
15°	478.3
17.5°	474.0
20°	468.4
22.5°	462.5
25°	456.2
27.5°	449.9
30°	443.6
32.5°	437.2
35°	430.9
37.5°	424.2
40°	417.5
42.5°	409.2
45°	397.3
47.5°	382.7
50°	365.7
52.5°	346.0
55°	324.7
57.5°	302.2
60°	278.1
62.5°	253.2
65°	227.5
67.5°	200.6
70°	173.0
72.5°	146.1
75°	120.1
77.5°	95.2
80°	71.9
82.5°	49.8
85°	29.6
87.5°	13.4
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	16.01	17.71	16.38	18.02	18.34	16.01	17.71	16.38	18.02	18.34
	3H	17.85	19.39	18.23	19.71	20.07	17.85	19.39	18.23	19.71	20.07
	4H	18.52	19.97	18.91	20.32	20.69	18.52	19.97	18.91	20.32	20.69
	6H	19.01	20.35	19.42	20.72	21.11	19.01	20.35	19.42	20.72	21.11
	8H	19.16	20.45	19.58	20.84	21.23	19.16	20.45	19.58	20.84	21.23
	12H	19.26	20.50	19.69	20.88	21.31	19.26	20.50	19.69	20.88	21.31
4H	2H	16.67	18.13	17.07	18.47	18.85	16.67	18.13	17.07	18.47	18.85
	3H	18.72	19.94	19.13	20.34	20.74	18.72	19.94	19.13	20.34	20.74
	4H	19.52	20.62	19.95	21.03	21.47	19.52	20.62	19.95	21.03	21.47
	6H	20.13	21.10	20.58	21.54	21.99	20.13	21.10	20.58	21.54	21.99
	8H	20.33	21.24	20.79	21.68	22.14	20.33	21.24	20.79	21.68	22.14
	12H	20.47	21.29	20.95	21.77	22.23	20.47	21.29	20.95	21.77	22.23
8H	4H	19.83	20.74	20.29	21.18	21.65	19.83	20.74	20.29	21.18	21.65
	6H	20.57	21.32	21.06	21.81	22.28	20.57	21.32	21.06	21.81	22.28
	8H	20.84	21.52	21.35	22.02	22.51	20.84	21.52	21.35	22.02	22.51
	12H	21.05	21.65	21.56	22.14	22.70	21.05	21.65	21.56	22.14	22.70
12H	4H	19.87	20.69	20.35	21.16	21.63	19.87	20.69	20.35	21.16	21.63
	6H	20.62	21.31	21.13	21.81	22.29	20.62	21.31	21.13	21.81	22.29
	8H	20.95	21.56	21.46	22.05	22.60	20.95	21.56	21.46	22.05	22.60