

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: P867089

Luminaire Tested: PRLX-2002-L-935-48L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867089
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: Pentalux
Catalog Number: PRLX-2002-L-935-48L-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

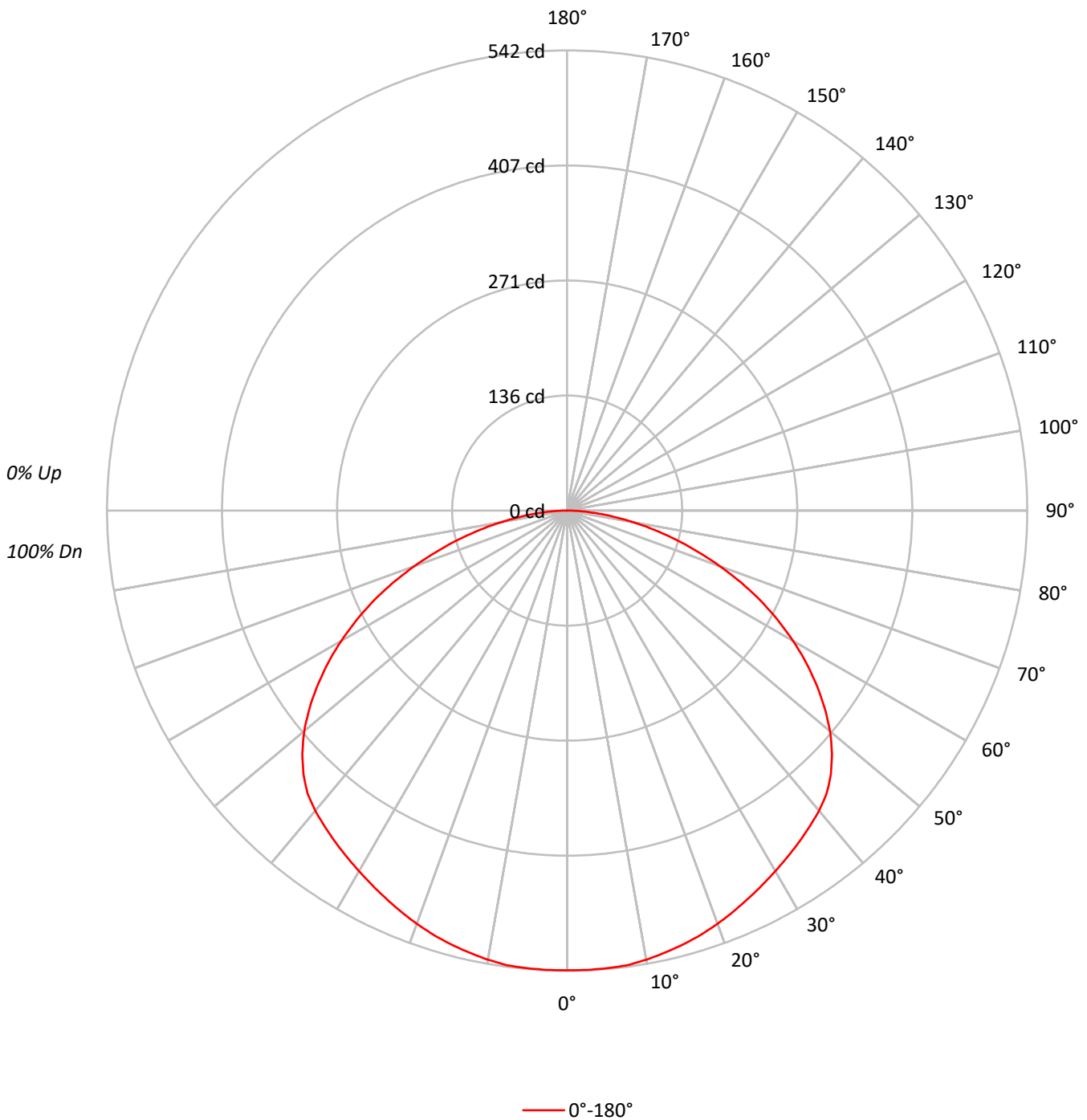
Lumens per Lamp: N/A
Luminaire Lumens: 1818.6 lumens
Efficiency: N/A
Efficacy: 48.5 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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°	2672
5°	2679
10°	2691
15°	2701
20°	2719
25°	2745
30°	2794
35°	2869
40°	2973
45°	3065
50°	3104
55°	3087
60°	3033
65°	2936
70°	2760
75°	2530
80°	2259
85°	1851

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 3104 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.5	2.8
10°-20°	149.5	8.2
20°-30°	233.0	12.8
30°-40°	298.8	16.4
40°-50°	337.8	18.6
50°-60°	320.2	17.6
60°-70°	248.1	13.6
70°-80°	141.0	7.8
80°-90°	38.7	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°	434.1	23.9
0°-40°	732.9	40.3
0°-60°	1390.9	76.5
0°-90°	1818.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1818.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	542	
5°	541	52
15°	529	150
25°	504	233
35°	476	299
45°	439	338
55°	359	320
65°	252	248
75°	133	141
85°	33	39
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	541.5
2.5°	541.5
5°	541.0
7.5°	540.2
10°	537.1
12.5°	533.2
15°	528.8
17.5°	524.0
20°	517.9
22.5°	511.3
25°	504.3
27.5°	497.4
30°	490.4
32.5°	483.4
35°	476.4
37.5°	469.0
40°	461.6
42.5°	452.4
45°	439.3
47.5°	423.1
50°	404.4
52.5°	382.5
55°	358.9
57.5°	334.0
60°	307.4
62.5°	279.9
65°	251.5
67.5°	221.8
70°	191.3
72.5°	161.6
75°	132.7
77.5°	105.2
80°	79.5
82.5°	55.0
85°	32.7
87.5°	14.8
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	16.36	18.05	16.72	18.37	18.68	16.36	18.05	16.72	18.37	18.68
	3H	18.20	19.74	18.57	20.06	20.42	18.20	19.74	18.57	20.06	20.42
	4H	18.87	20.32	19.26	20.66	21.04	18.87	20.32	19.26	20.66	21.04
	6H	19.35	20.70	19.76	21.06	21.45	19.35	20.70	19.76	21.06	21.45
	8H	19.51	20.80	19.93	21.18	21.58	19.51	20.80	19.93	21.18	21.58
	12H	19.61	20.84	20.04	21.22	21.65	19.61	20.84	20.04	21.22	21.65
4H	2H	17.02	18.47	17.42	18.82	19.19	17.02	18.47	17.42	18.82	19.19
	3H	19.07	20.29	19.48	20.69	21.09	19.07	20.29	19.48	20.69	21.09
	4H	19.86	20.97	20.29	21.38	21.82	19.86	20.97	20.29	21.38	21.82
	6H	20.48	21.45	20.93	21.89	22.34	20.48	21.45	20.93	21.89	22.34
	8H	20.68	21.59	21.14	22.03	22.49	20.68	21.59	21.14	22.03	22.49
	12H	20.82	21.64	21.30	22.11	22.58	20.82	21.64	21.30	22.11	22.58
8H	4H	20.18	21.09	20.64	21.53	21.99	20.18	21.09	20.64	21.53	21.99
	6H	20.91	21.67	21.41	22.16	22.63	20.91	21.67	21.41	22.16	22.63
	8H	21.19	21.87	21.69	22.37	22.86	21.19	21.87	21.69	22.37	22.86
	12H	21.40	22.00	21.90	22.49	23.05	21.40	22.00	21.90	22.49	23.05
12H	4H	20.22	21.04	20.70	21.51	21.98	20.22	21.04	20.70	21.51	21.98
	6H	20.97	21.65	21.48	22.16	22.64	20.97	21.65	21.48	22.16	22.64
	8H	21.30	21.90	21.81	22.39	22.95	21.30	21.90	21.81	22.39	22.95