

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: P867090

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867090
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-70)
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-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

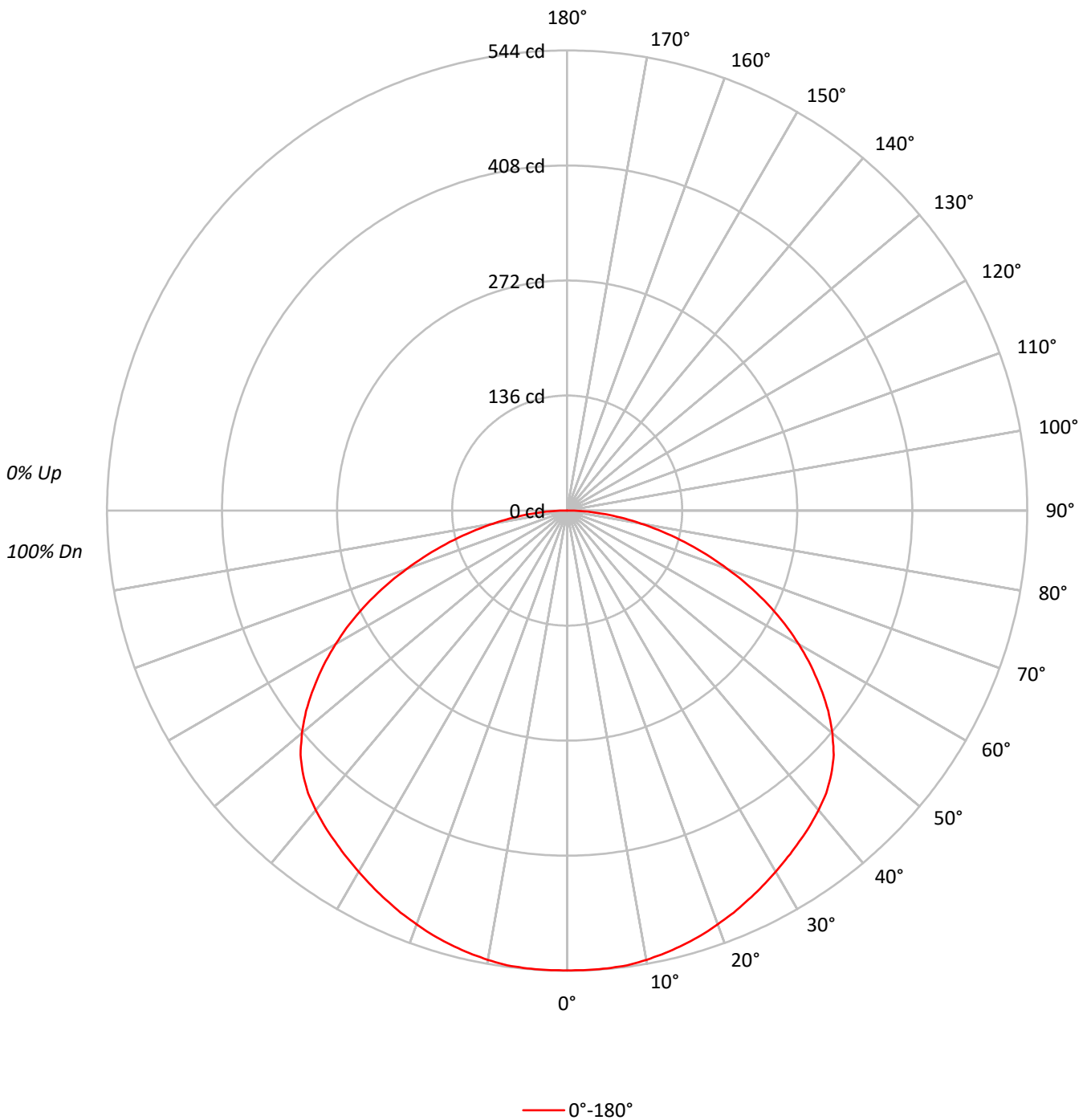
Lumens per Lamp: N/A
Luminaire Lumens: 1859.2 lumens
Efficiency: N/A
Efficacy: 49.6 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
Input Voltage (V): 120
Input Current (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	108	103	98	94	105	101	96	93	96	93	90		92	89	87		89	86	84	82
2	98	89	82	75	95	87	80	75	83	78	73		80	75	71		77	73	69	67
3	88	77	69	62	86	76	68	61	73	66	60		70	64	59		67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51		62	55	50		59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43		55	48	43		53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37		50	42	37		48	42	37	35
7	63	49	40	33	61	48	39	33	46	39	33		45	38	33		44	37	32	30
8	58	44	36	29	57	44	35	29	42	35	29		41	34	29		40	33	29	27
9	54	41	32	26	53	40	32	26	39	31	26		38	31	26		37	30	26	24
10	51	37	29	24	50	37	29	24	36	29	24		35	28	23		34	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2682
5°	2690
10°	2702
15°	2714
20°	2733
25°	2762
30°	2809
35°	2880
40°	2978
45°	3081
50°	3141
55°	3147
60°	3119
65°	3054
70°	2910
75°	2739
80°	2517
85°	2321

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 3154 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.7	2.8
10°-20°	150.2	8.1
20°-30°	234.4	12.6
30°-40°	299.9	16.1
40°-50°	339.8	18.3
50°-60°	326.6	17.6
60°-70°	258.0	13.9
70°-80°	152.2	8.2
80°-90°	46.3	2.5
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°	436.4	23.5
0°-40°	736.3	39.6
0°-60°	1402.7	75.4
0°-90°	1859.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1859.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	544	
5°	543	52
15°	531	150
25°	507	234
35°	478	300
45°	442	340
55°	366	327
65°	262	258
75°	144	152
85°	41	46
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	543.6
2.5°	543.6
5°	543.2
7.5°	542.3
10°	539.3
12.5°	535.8
15°	531.4
17.5°	526.6
20°	520.5
22.5°	514.4
25°	507.4
27.5°	500.4
30°	493.0
32.5°	485.6
35°	478.1
37.5°	470.7
40°	462.4
42.5°	453.3
45°	441.5
47.5°	427.5
50°	409.2
52.5°	389.1
55°	365.9
57.5°	341.9
60°	316.1
62.5°	289.9
65°	261.6
67.5°	232.3
70°	201.7
72.5°	172.9
75°	143.7
77.5°	115.3
80°	88.6
82.5°	63.8
85°	41.0
87.5°	21.0
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	16.43	18.14	16.80	18.45	18.77	16.43	18.14	16.80	18.45	18.77
	3H	18.35	19.90	18.72	20.22	20.58	18.35	19.90	18.72	20.22	20.58
	4H	19.07	20.53	19.47	20.88	21.25	19.07	20.53	19.47	20.88	21.25
	6H	19.62	20.98	20.03	21.34	21.73	19.62	20.98	20.03	21.34	21.73
	8H	19.80	21.10	20.23	21.49	21.89	19.80	21.10	20.23	21.49	21.89
	12H	19.94	21.19	20.37	21.57	22.00	19.94	21.19	20.37	21.57	22.00
4H	2H	17.12	18.58	17.51	18.93	19.30	17.12	18.58	17.51	18.93	19.30
	3H	19.25	20.48	19.65	20.88	21.28	19.25	20.48	19.65	20.88	21.28
	4H	20.10	21.22	20.53	21.63	22.07	20.10	21.22	20.53	21.63	22.07
	6H	20.78	21.76	21.23	22.20	22.65	20.78	21.76	21.23	22.20	22.65
	8H	21.02	21.94	21.48	22.38	22.85	21.02	21.94	21.48	22.38	22.85
	12H	21.21	22.04	21.69	22.51	22.98	21.21	22.04	21.69	22.51	22.98
8H	4H	20.44	21.37	20.90	21.81	22.27	20.44	21.37	20.90	21.81	22.27
	6H	21.25	22.02	21.75	22.51	22.98	21.25	22.02	21.75	22.51	22.98
	8H	21.58	22.27	22.08	22.77	23.26	21.58	22.27	22.08	22.77	23.26
	12H	21.85	22.46	22.36	22.95	23.51	21.85	22.46	22.36	22.95	23.51
12H	4H	20.49	21.32	20.97	21.79	22.26	20.49	21.32	20.97	21.79	22.26
	6H	21.33	22.02	21.83	22.52	23.01	21.33	22.02	21.83	22.52	23.01
	8H	21.71	22.32	22.22	22.81	23.37	21.71	22.32	22.22	22.81	23.37