

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: P867162

Luminaire Tested: PRLX-2002-L-940-67L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867162
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-940-67L-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 4
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

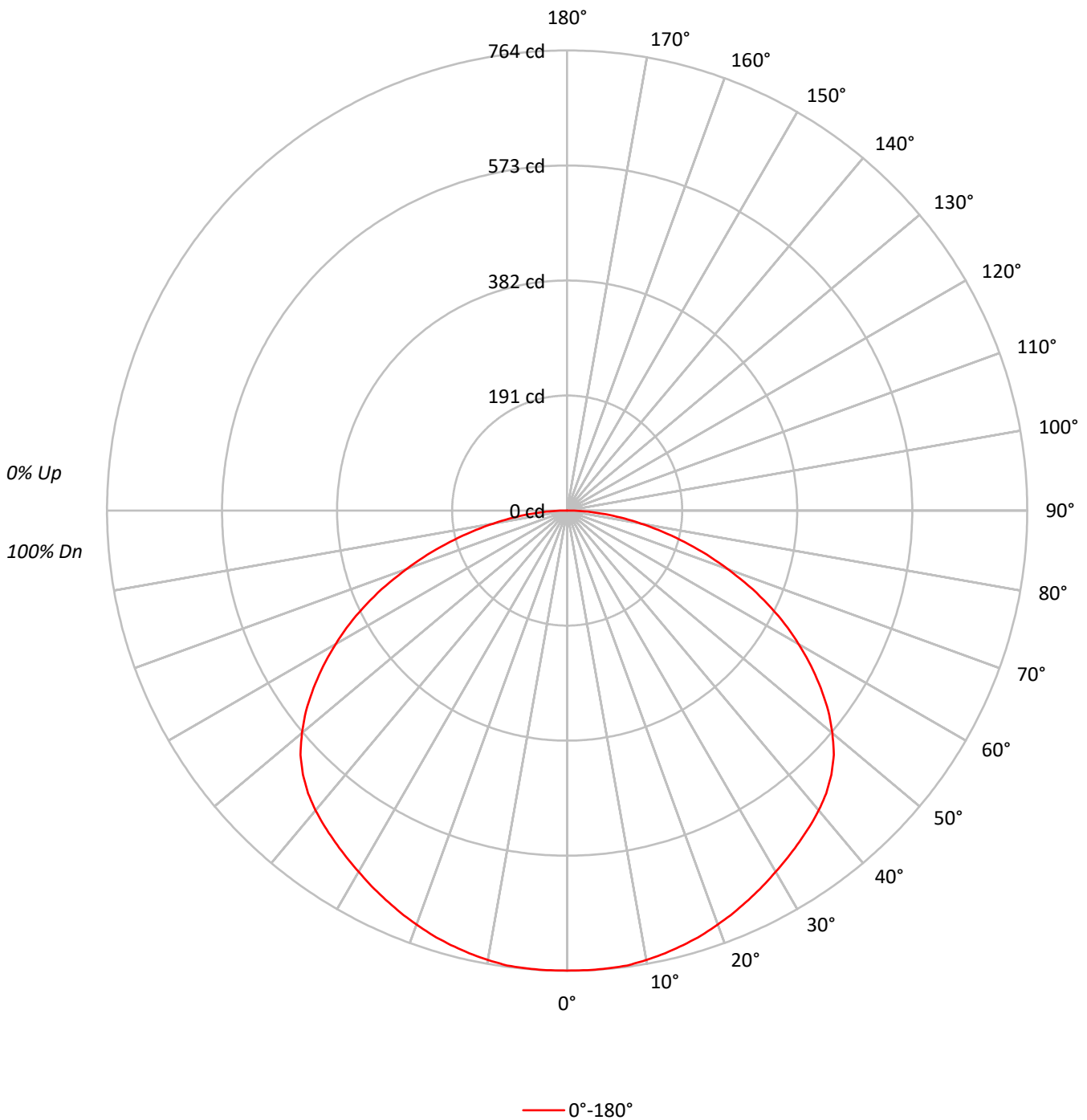
Lumens per Lamp: N/A
Luminaire Lumens: 2612.0 lumens
Efficiency: N/A
Efficacy: 51.8 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 50.4
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°	3768
5°	3780
10°	3796
15°	3814
20°	3840
25°	3881
30°	3946
35°	4046
40°	4184
45°	4327
50°	4412
55°	4422
60°	4383
65°	4290
70°	4088
75°	3847
80°	3537
85°	3266

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 4430 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.7	2.8
10°-20°	211.1	8.1
20°-30°	329.3	12.6
30°-40°	421.4	16.1
40°-50°	477.4	18.3
50°-60°	458.8	17.6
60°-70°	362.5	13.9
70°-80°	213.8	8.2
80°-90°	65.0	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°	613.1	23.5
0°-40°	1034.5	39.6
0°-60°	1970.7	75.4
0°-90°	2612.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2612.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	764	
5°	763	73
15°	747	211
25°	713	329
35°	672	421
45°	620	477
55°	514	459
65°	368	363
75°	202	214
85°	58	65
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	763.8
2.5°	763.8
5°	763.2
7.5°	761.9
10°	757.6
12.5°	752.7
15°	746.6
17.5°	739.9
20°	731.3
22.5°	722.7
25°	712.9
27.5°	703.0
30°	692.6
32.5°	682.2
35°	671.8
37.5°	661.3
40°	649.7
42.5°	636.8
45°	620.2
47.5°	600.6
50°	574.8
52.5°	546.6
55°	514.1
57.5°	480.4
60°	444.2
62.5°	407.3
65°	367.5
67.5°	326.4
70°	283.4
72.5°	242.9
75°	201.8
77.5°	162.0
80°	124.5
82.5°	89.6
85°	57.7
87.5°	29.4
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	17.61	19.32	17.98	19.64	19.95	17.61	19.32	17.98	19.64	19.95
	3H	19.53	21.08	19.91	21.40	21.76	19.53	21.08	19.91	21.40	21.76
	4H	20.25	21.72	20.65	22.06	22.44	20.25	21.72	20.65	22.06	22.44
	6H	20.80	22.16	21.21	22.52	22.91	20.80	22.16	21.21	22.52	22.91
	8H	20.98	22.29	21.41	22.67	23.07	20.98	22.29	21.41	22.67	23.07
	12H	21.12	22.37	21.55	22.75	23.18	21.12	22.37	21.55	22.75	23.18
4H	2H	18.30	19.76	18.70	20.11	20.48	18.30	19.76	18.70	20.11	20.48
	3H	20.43	21.66	20.84	22.06	22.46	20.43	21.66	20.84	22.06	22.46
	4H	21.28	22.40	21.71	22.81	23.25	21.28	22.40	21.71	22.81	23.25
	6H	21.96	22.94	22.41	23.38	23.83	21.96	22.94	22.41	23.38	23.83
	8H	22.20	23.12	22.66	23.56	24.03	22.20	23.12	22.66	23.56	24.03
	12H	22.39	23.22	22.87	23.70	24.16	22.39	23.22	22.87	23.70	24.16
8H	4H	21.63	22.55	22.08	22.99	23.45	21.63	22.55	22.08	22.99	23.45
	6H	22.44	23.21	22.93	23.69	24.16	22.44	23.21	22.93	23.69	24.16
	8H	22.76	23.45	23.26	23.95	24.44	22.76	23.45	23.26	23.95	24.44
	12H	23.03	23.65	23.54	24.14	24.69	23.03	23.65	23.54	24.14	24.69
12H	4H	21.67	22.50	22.15	22.98	23.44	21.67	22.50	22.15	22.98	23.44
	6H	22.51	23.20	23.01	23.70	24.19	22.51	23.20	23.01	23.70	24.19
	8H	22.89	23.51	23.40	23.99	24.55	22.89	23.51	23.40	23.99	24.55