

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: P866970

Luminaire Tested: PRLX-2002-L-927-67L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866970
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-927-67L-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

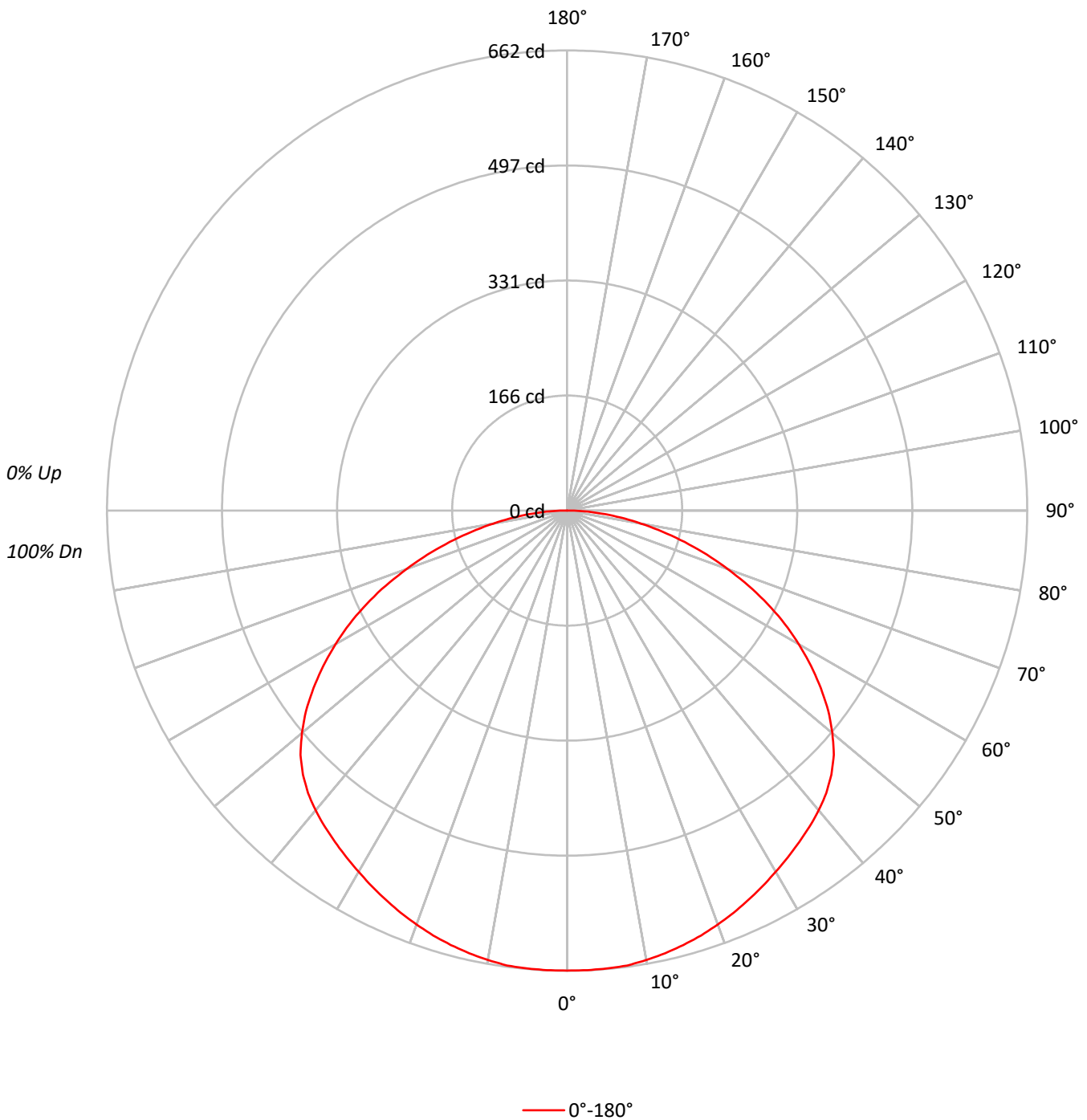
Lumens per Lamp: N/A
Luminaire Lumens: 2263.1 lumens
Efficiency: N/A
Efficacy: 44.9 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 50.4
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	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°	3265
5°	3275
10°	3289
15°	3304
20°	3327
25°	3362
30°	3419
35°	3505
40°	3625
45°	3750
50°	3823
55°	3831
60°	3797
65°	3717
70°	3543
75°	3334
80°	3066
85°	2830

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 3838 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.0	2.8
10°-20°	182.9	8.1
20°-30°	285.3	12.6
30°-40°	365.1	16.1
40°-50°	413.7	18.3
50°-60°	397.5	17.6
60°-70°	314.1	13.9
70°-80°	185.2	8.2
80°-90°	56.3	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°	531.2	23.5
0°-40°	896.3	39.6
0°-60°	1707.5	75.4
0°-90°	2263.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2263.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	662	
5°	661	63
15°	647	183
25°	618	285
35°	582	365
45°	537	414
55°	445	398
65°	318	314
75°	175	185
85°	50	56
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	661.8
2.5°	661.8
5°	661.2
7.5°	660.2
10°	656.4
12.5°	652.2
15°	646.9
17.5°	641.0
20°	633.6
22.5°	626.2
25°	617.6
27.5°	609.1
30°	600.1
32.5°	591.1
35°	582.0
37.5°	573.0
40°	562.9
42.5°	551.7
45°	537.4
47.5°	520.4
50°	498.1
52.5°	473.6
55°	445.4
57.5°	416.2
60°	384.8
62.5°	352.9
65°	318.4
67.5°	282.8
70°	245.6
72.5°	210.5
75°	174.9
77.5°	140.3
80°	107.9
82.5°	77.6
85°	50.0
87.5°	25.5
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	17.12	18.82	17.48	19.14	19.45	17.12	18.82	17.48	19.14	19.45
	3H	19.03	20.58	19.41	20.91	21.27	19.03	20.58	19.41	20.91	21.27
	4H	19.75	21.22	20.15	21.56	21.94	19.75	21.22	20.15	21.56	21.94
	6H	20.30	21.66	20.71	22.02	22.41	20.30	21.66	20.71	22.02	22.41
	8H	20.49	21.79	20.91	22.18	22.57	20.49	21.79	20.91	22.18	22.57
	12H	20.62	21.87	21.05	22.25	22.68	20.62	21.87	21.05	22.25	22.68
4H	2H	17.80	19.26	18.20	19.61	19.98	17.80	19.26	18.20	19.61	19.98
	3H	19.93	21.16	20.34	21.56	21.96	19.93	21.16	20.34	21.56	21.96
	4H	20.78	21.90	21.21	22.32	22.75	20.78	21.90	21.21	22.32	22.75
	6H	21.46	22.45	21.91	22.88	23.34	21.46	22.45	21.91	22.88	23.34
	8H	21.70	22.62	22.16	23.06	23.53	21.70	22.62	22.16	23.06	23.53
	12H	21.89	22.72	22.37	23.20	23.67	21.89	22.72	22.37	23.20	23.67
8H	4H	21.13	22.05	21.59	22.49	22.95	21.13	22.05	21.59	22.49	22.95
	6H	21.94	22.71	22.43	23.19	23.67	21.94	22.71	22.43	23.19	23.67
	8H	22.26	22.95	22.77	23.45	23.94	22.26	22.95	22.77	23.45	23.94
	12H	22.54	23.15	23.04	23.64	24.19	22.54	23.15	23.04	23.64	24.19
12H	4H	21.17	22.00	21.65	22.48	22.95	21.17	22.00	21.65	22.48	22.95
	6H	22.01	22.70	22.51	23.20	23.69	22.01	22.70	22.51	23.20	23.69
	8H	22.39	23.01	22.90	23.50	24.05	22.39	23.01	22.90	23.50	24.05