

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: P866962

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866962
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-927-48L-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

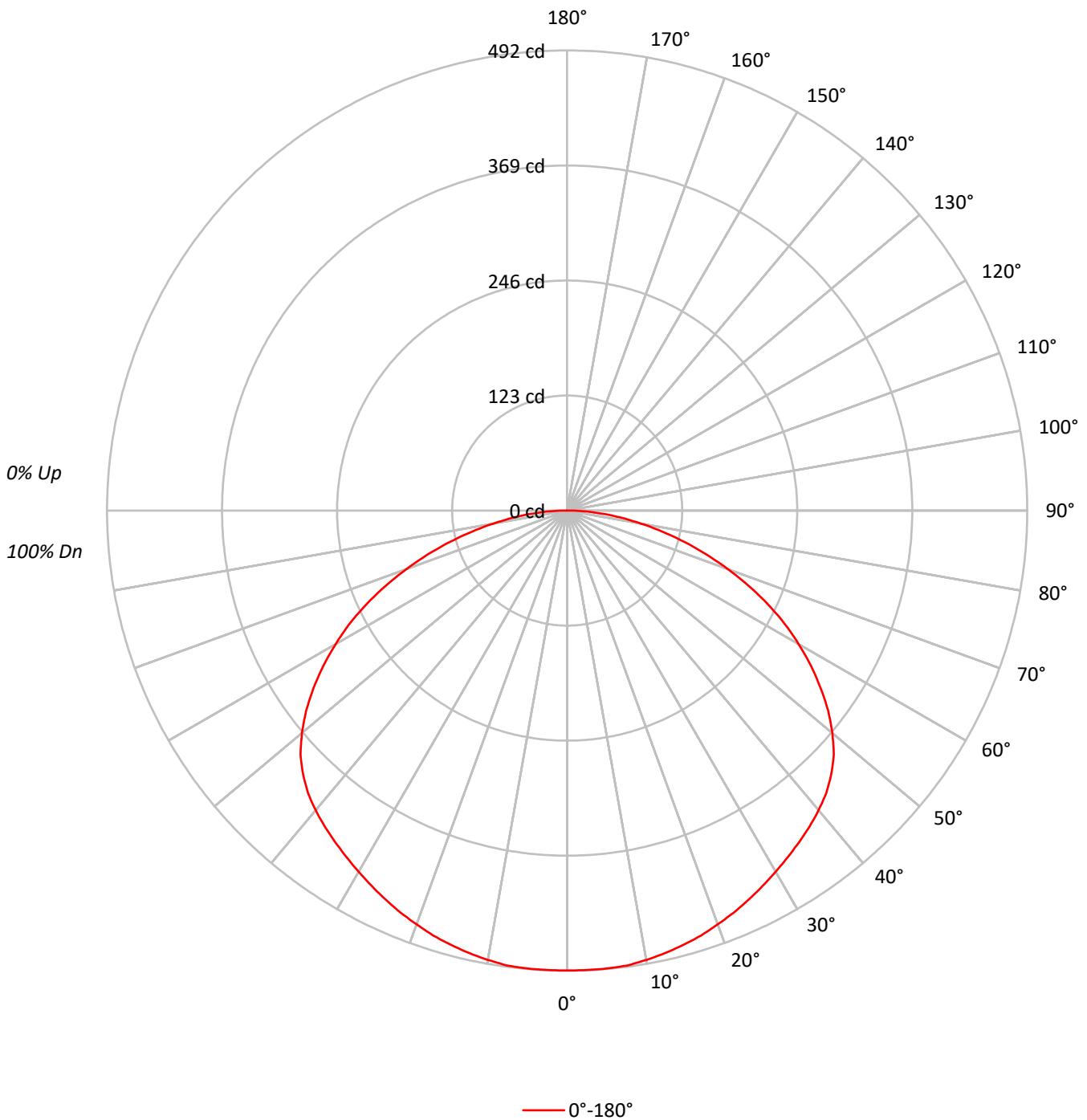
Lumens per Lamp: N/A
Luminaire Lumens: 1681.7 lumens
Efficiency: N/A
Efficacy: 44.8 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	2426
5°	2434
10°	2444
15°	2455
20°	2472
25°	2499
30°	2540
35°	2605
40°	2694
45°	2786
50°	2841
55°	2847
60°	2822
65°	2762
70°	2633
75°	2476
80°	2279
85°	2100

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 2852 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.8	2.8
10°-20°	135.9	8.1
20°-30°	212.0	12.6
30°-40°	271.3	16.1
40°-50°	307.4	18.3
50°-60°	295.4	17.6
60°-70°	233.4	13.9
70°-80°	137.6	8.2
80°-90°	41.9	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°	394.7	23.5
0°-40°	666.0	39.6
0°-60°	1268.8	75.4
0°-90°	1681.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1681.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	492	
5°	491	47
15°	481	136
25°	459	212
35°	432	271
45°	399	307
55°	331	295
65°	237	233
75°	130	138
85°	37	42
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	491.7
2.5°	491.7
5°	491.4
7.5°	490.6
10°	487.8
12.5°	484.6
15°	480.7
17.5°	476.3
20°	470.8
22.5°	465.3
25°	459.0
27.5°	452.6
30°	445.9
32.5°	439.2
35°	432.5
37.5°	425.8
40°	418.3
42.5°	410.0
45°	399.3
47.5°	386.7
50°	370.1
52.5°	351.9
55°	331.0
57.5°	309.3
60°	286.0
62.5°	262.3
65°	236.6
67.5°	210.1
70°	182.5
72.5°	156.4
75°	129.9
77.5°	104.3
80°	80.2
82.5°	57.7
85°	37.1
87.5°	19.0
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	16.08	17.79	16.45	18.11	18.42	16.08	17.79	16.45	18.11	18.42
	3H	18.00	19.55	18.38	19.87	20.23	18.00	19.55	18.38	19.87	20.23
	4H	18.72	20.19	19.12	20.53	20.91	18.72	20.19	19.12	20.53	20.91
	6H	19.27	20.63	19.68	20.99	21.38	19.27	20.63	19.68	20.99	21.38
	8H	19.45	20.76	19.88	21.14	21.54	19.45	20.76	19.88	21.14	21.54
	12H	19.59	20.84	20.02	21.22	21.65	19.59	20.84	20.02	21.22	21.65
4H	2H	16.77	18.23	17.17	18.58	18.95	16.77	18.23	17.17	18.58	18.95
	3H	18.90	20.13	19.31	20.53	20.93	18.90	20.13	19.31	20.53	20.93
	4H	19.75	20.87	20.18	21.28	21.72	19.75	20.87	20.18	21.28	21.72
	6H	20.43	21.41	20.88	21.85	22.30	20.43	21.41	20.88	21.85	22.30
	8H	20.67	21.59	21.13	22.03	22.50	20.67	21.59	21.13	22.03	22.50
	12H	20.86	21.69	21.34	22.17	22.63	20.86	21.69	21.34	22.17	22.63
8H	4H	20.10	21.02	20.55	21.46	21.92	20.10	21.02	20.55	21.46	21.92
	6H	20.91	21.68	21.40	22.16	22.63	20.91	21.68	21.40	22.16	22.63
	8H	21.23	21.92	21.73	22.42	22.91	21.23	21.92	21.73	22.42	22.91
	12H	21.50	22.12	22.01	22.61	23.16	21.50	22.12	22.01	22.61	23.16
12H	4H	20.14	20.97	20.62	21.45	21.91	20.14	20.97	20.62	21.45	21.91
	6H	20.98	21.67	21.48	22.17	22.66	20.98	21.67	21.48	22.17	22.66
	8H	21.36	21.98	21.87	22.46	23.02	21.36	21.98	21.87	22.46	23.02