

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: P867026

Luminaire Tested: PRLX-2002-L-930-48L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867026
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-930-48L-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

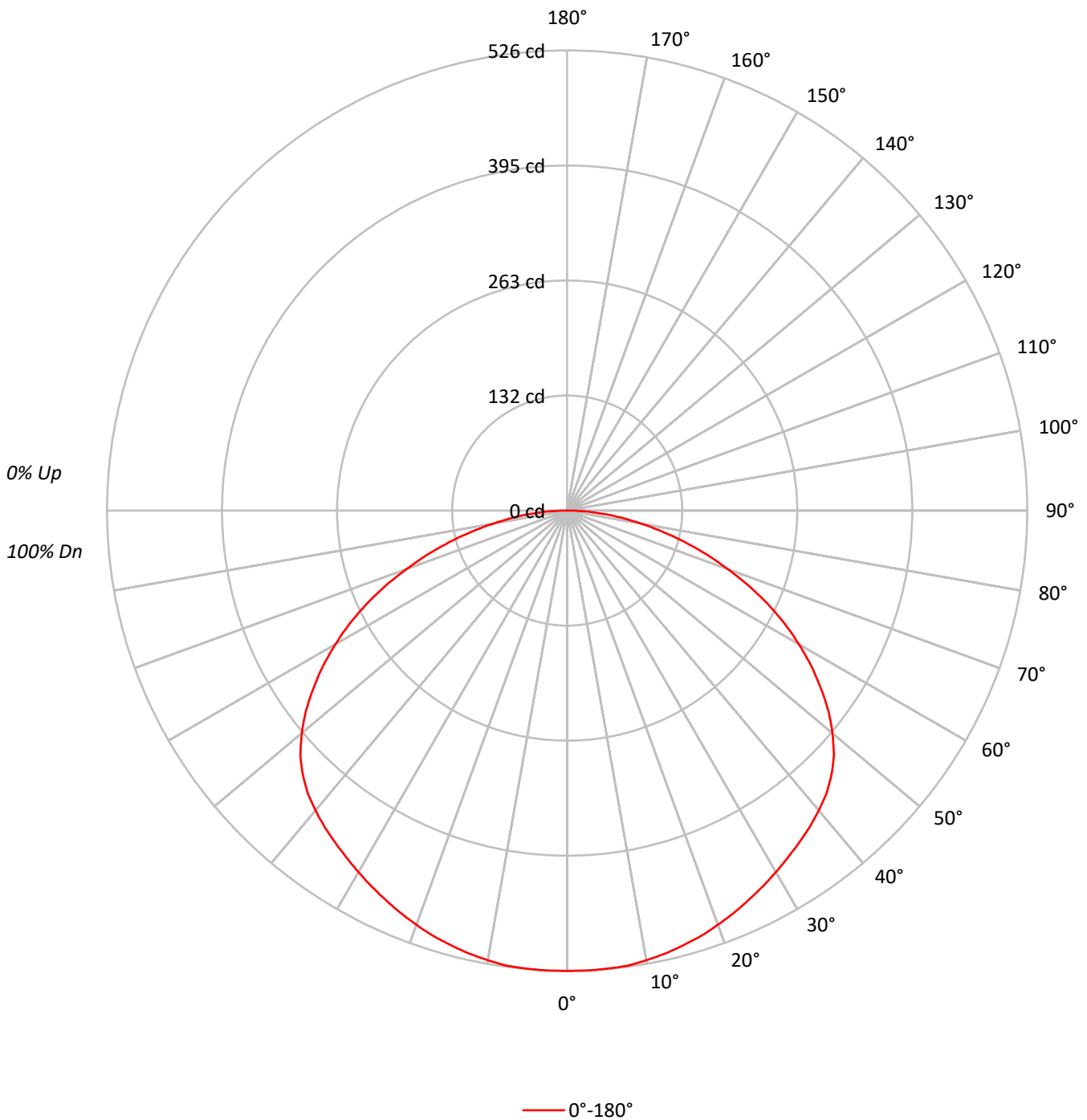
Lumens per Lamp: N/A
Luminaire Lumens: 1799.4 lumens
Efficiency: N/A
Efficacy: 48.0 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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°	2596
5°	2604
10°	2615
15°	2627
20°	2645
25°	2673
30°	2718
35°	2787
40°	2883
45°	2981
50°	3040
55°	3047
60°	3019
65°	2955
70°	2816
75°	2650
80°	2438
85°	2247

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 3052 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.1	2.8
10°-20°	145.4	8.1
20°-30°	226.9	12.6
30°-40°	290.3	16.1
40°-50°	328.9	18.3
50°-60°	316.1	17.6
60°-70°	249.7	13.9
70°-80°	147.3	8.2
80°-90°	44.8	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°	422.3	23.5
0°-40°	712.6	39.6
0°-60°	1357.6	75.4
0°-90°	1799.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1799.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	526	
5°	526	50
15°	514	145
25°	491	227
35°	463	290
45°	427	329
55°	354	316
65°	253	250
75°	139	147
85°	40	45
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	526.2
2.5°	526.2
5°	525.7
7.5°	524.9
10°	521.9
12.5°	518.6
15°	514.3
17.5°	509.7
20°	503.8
22.5°	497.8
25°	491.1
27.5°	484.3
30°	477.1
32.5°	470.0
35°	462.8
37.5°	455.6
40°	447.6
42.5°	438.7
45°	427.3
47.5°	413.7
50°	396.0
52.5°	376.6
55°	354.2
57.5°	330.9
60°	306.0
62.5°	280.6
65°	253.1
67.5°	224.8
70°	195.2
72.5°	167.4
75°	139.0
77.5°	111.6
80°	85.8
82.5°	61.7
85°	39.7
87.5°	20.3
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	16.32	18.03	16.68	18.34	18.65	16.32	18.03	16.68	18.34	18.65
	3H	18.23	19.78	18.61	20.11	20.47	18.23	19.78	18.61	20.11	20.47
	4H	18.96	20.42	19.35	20.77	21.14	18.96	20.42	19.35	20.77	21.14
	6H	19.50	20.86	19.91	21.22	21.61	19.50	20.86	19.91	21.22	21.61
	8H	19.69	20.99	20.11	21.38	21.78	19.69	20.99	20.11	21.38	21.78
	12H	19.83	21.07	20.25	21.46	21.88	19.83	21.07	20.25	21.46	21.88
4H	2H	17.00	18.47	17.40	18.81	19.19	17.00	18.47	17.40	18.81	19.19
	3H	19.13	20.37	19.54	20.76	21.16	19.13	20.37	19.54	20.76	21.16
	4H	19.99	21.11	20.42	21.52	21.95	19.99	21.11	20.42	21.52	21.95
	6H	20.67	21.65	21.12	22.09	22.54	20.67	21.65	21.12	22.09	22.54
	8H	20.91	21.83	21.36	22.27	22.73	20.91	21.83	21.36	22.27	22.73
	12H	21.10	21.93	21.57	22.40	22.87	21.10	21.93	21.57	22.40	22.87
8H	4H	20.33	21.25	20.79	21.69	22.16	20.33	21.25	20.79	21.69	22.16
	6H	21.14	21.91	21.63	22.40	22.87	21.14	21.91	21.63	22.40	22.87
	8H	21.46	22.15	21.97	22.66	23.14	21.46	22.15	21.97	22.66	23.14
	12H	21.74	22.35	22.24	22.84	23.40	21.74	22.35	22.24	22.84	23.40
12H	4H	20.38	21.21	20.85	21.68	22.15	20.38	21.21	20.85	21.68	22.15
	6H	21.21	21.90	21.72	22.41	22.89	21.21	21.90	21.72	22.41	22.89
	8H	21.60	22.21	22.10	22.70	23.26	21.60	22.21	22.10	22.70	23.26