

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: P867088

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867088
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-71)
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-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

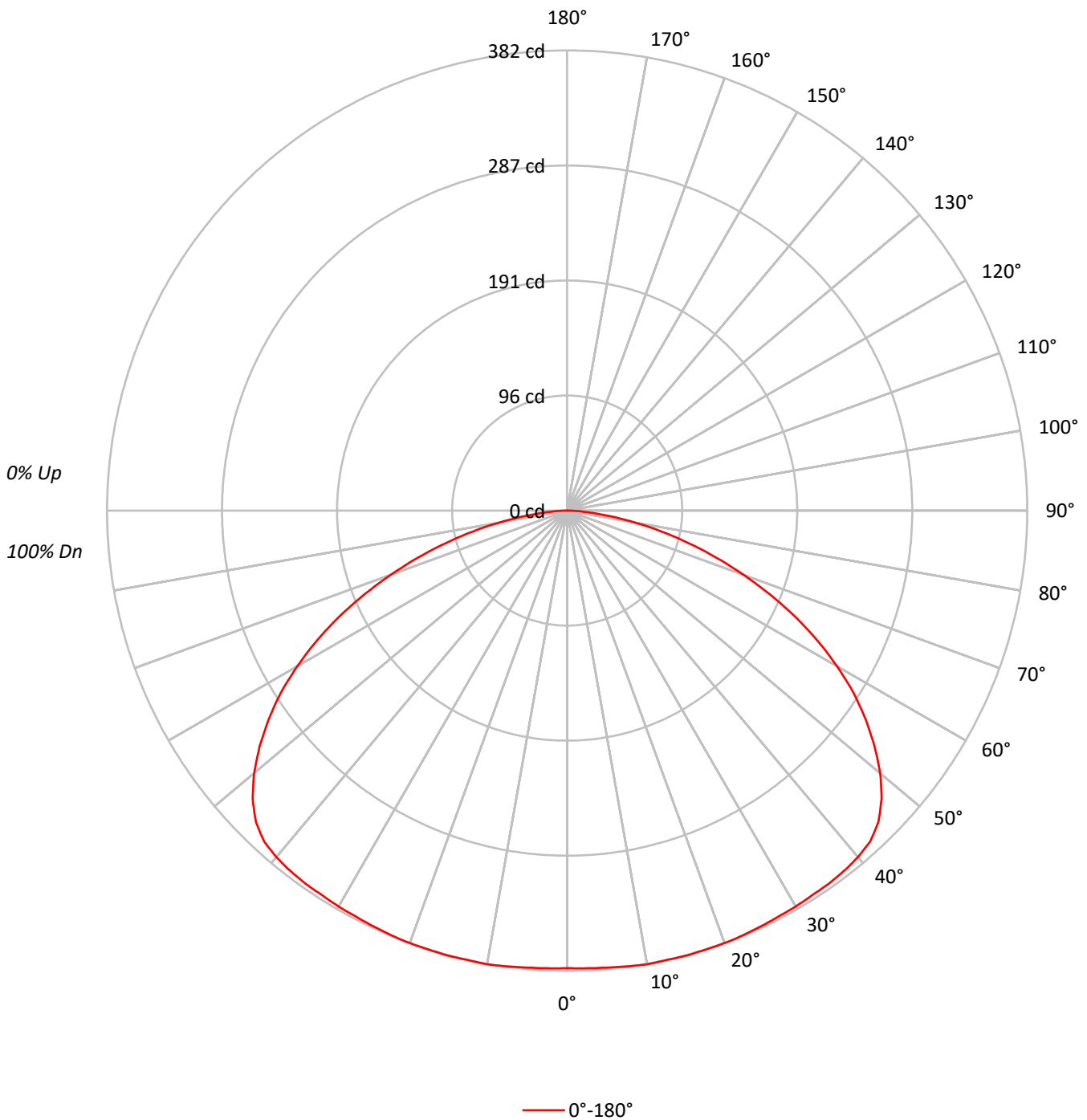
Lumens per Lamp: N/A
Luminaire Lumens: 1449.9 lumens
Efficiency: N/A
Efficacy: 38.7 lumens/watt
Spacing Criteria (0/90/45): 1.52 / 1.52 / 1.65
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77	73	70	68
3	89	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	56	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	44	38	66	53	44	37	51	43	37		49	42	37		48	41	36	34
7	63	48	39	33	61	48	39	33	46	38	32		44	37	32		43	37	32	30
8	58	44	35	29	56	43	35	29	42	34	29		41	34	28		39	33	28	26
9	54	40	32	26	53	39	31	26	38	31	26		37	30	25		36	30	25	23
10	50	37	29	23	49	36	28	23	35	28	23		34	28	23		33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1874
5°	1886
10°	1916
15°	1954
20°	2006
25°	2073
30°	2162
35°	2278
40°	2418
45°	2550
50°	2604
55°	2603
60°	2555
65°	2442
70°	2243
75°	1990
80°	1625
85°	1087

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 2608 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.4	2.5
10°-20°	108.4	7.5
20°-30°	176.2	12.2
30°-40°	237.4	16.4
40°-50°	280.3	19.3
50°-60°	269.7	18.6
60°-70°	206.3	14.2
70°-80°	110.8	7.6
80°-90°	24.6	1.7
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°	321.0	22.1
0°-40°	558.3	38.5
0°-60°	1108.3	76.4
0°-90°	1449.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1449.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	380	
5°	381	36
15°	382	108
25°	381	176
35°	378	237
45°	366	280
55°	303	270
65°	209	206
75°	104	111
85°	19	25
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	379.9
2.5°	380.3
5°	380.8
7.5°	381.6
10°	382.5
12.5°	382.1
15°	382.5
17.5°	382.1
20°	382.1
22.5°	381.6
25°	380.8
27.5°	379.9
30°	379.5
32.5°	378.6
35°	378.2
37.5°	377.3
40°	375.5
42.5°	372.5
45°	365.5
47.5°	354.1
50°	339.3
52.5°	321.8
55°	302.6
57.5°	282.1
60°	258.9
62.5°	234.9
65°	209.2
67.5°	182.5
70°	155.5
72.5°	129.7
75°	104.4
77.5°	79.9
80°	57.2
82.5°	36.2
85°	19.2
87.5°	6.5
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	15.95	17.66	16.31	17.98	18.29	15.95	17.66	16.31	17.98	18.29
	3H	17.70	19.25	18.08	19.58	19.94	17.70	19.25	18.08	19.58	19.94
	4H	18.31	19.77	18.70	20.12	20.49	18.31	19.77	18.70	20.12	20.49
	6H	18.70	20.06	19.11	20.42	20.81	18.70	20.06	19.11	20.42	20.81
	8H	18.80	20.10	19.23	20.49	20.89	18.80	20.10	19.23	20.49	20.89
	12H	18.85	20.10	19.28	20.48	20.91	18.85	20.10	19.28	20.48	20.91
4H	2H	16.59	18.06	16.99	18.41	18.78	16.59	18.06	16.99	18.41	18.78
	3H	18.55	19.78	18.96	20.18	20.58	18.55	19.78	18.96	20.18	20.58
	4H	19.27	20.39	19.70	20.80	21.23	19.27	20.39	19.70	20.80	21.23
	6H	19.78	20.75	20.23	21.19	21.65	19.78	20.75	20.23	21.19	21.65
	8H	19.91	20.83	20.37	21.27	21.73	19.91	20.83	20.37	21.27	21.73
	12H	19.99	20.82	20.47	21.29	21.76	19.99	20.82	20.47	21.29	21.76
8H	4H	19.56	20.47	20.01	20.91	21.37	19.56	20.47	20.01	20.91	21.37
	6H	20.16	20.92	20.65	21.40	21.88	20.16	20.92	20.65	21.40	21.88
	8H	20.34	21.02	20.85	21.53	22.01	20.34	21.02	20.85	21.53	22.01
	12H	20.47	21.07	20.97	21.56	22.12	20.47	21.07	20.97	21.56	22.12
12H	4H	19.58	20.41	20.06	20.88	21.35	19.58	20.41	20.06	20.88	21.35
	6H	20.19	20.88	20.70	21.38	21.86	20.19	20.88	20.70	21.38	21.86
	8H	20.42	21.03	20.93	21.52	22.07	20.42	21.03	20.93	21.52	22.07