

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: P866244

Luminaire Tested: PRLX-2002-M-930-45L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866244
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-41)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-M-930-45L-G-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

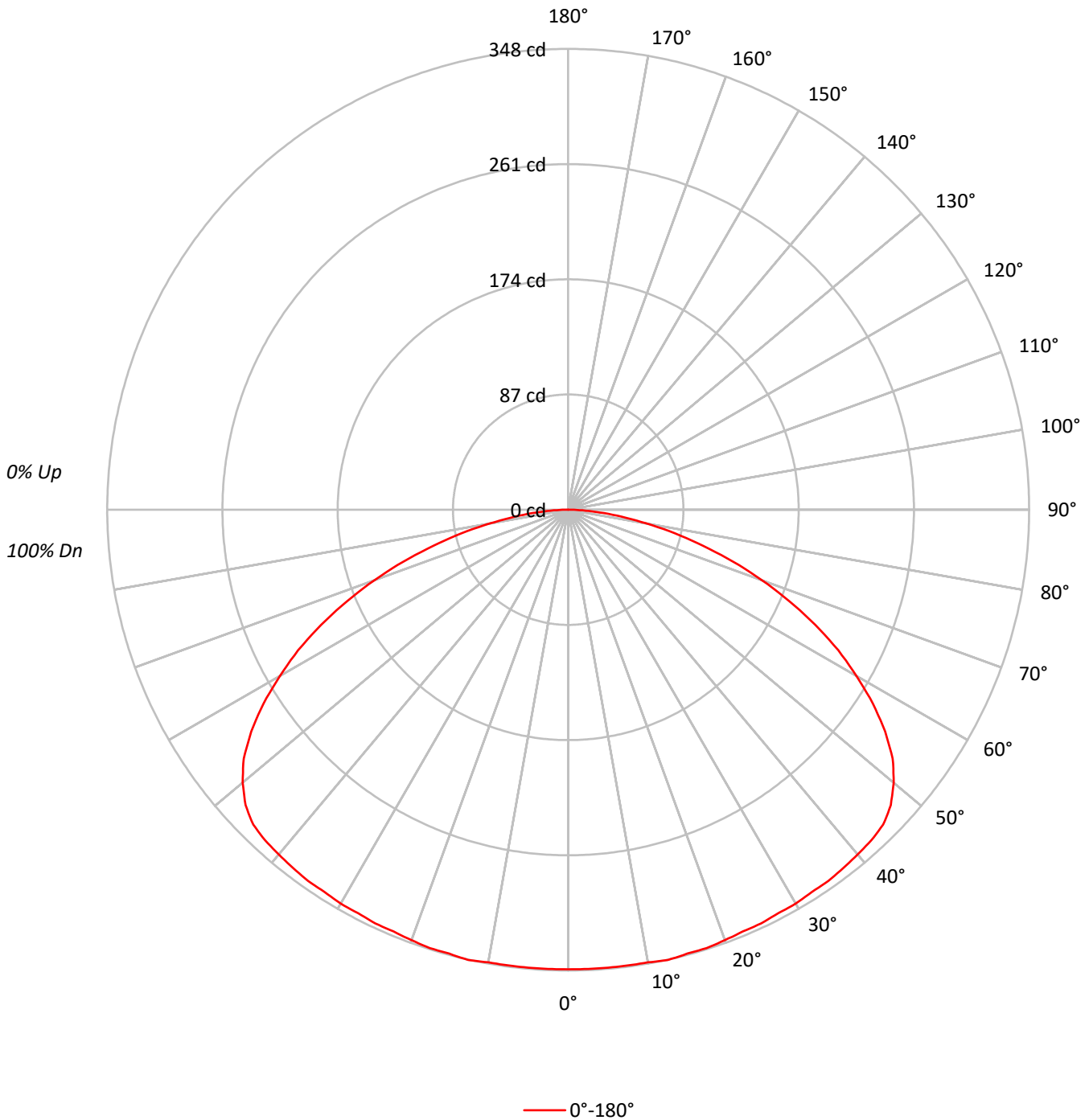
Lumens per Lamp: N/A
Luminaire Lumens: 1367.4 lumens
Efficiency: N/A
Efficacy: 35.2 lumens/watt
Spacing Criteria (0/90/45): 1.51 / 1.51 / 1.67
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 38.8
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	100	96	92	96	93	90	92	89	87	89	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	85	75	67	60	72	65	59	69	63	58	67	61	57	55
4	80	67	58	51	78	66	57	50	63	56	49	61	54	49	59	53	48	46
5	73	59	50	43	71	58	49	42	56	48	42	54	47	41	52	46	41	39
6	67	53	43	37	65	52	43	37	50	42	36	48	41	36	47	40	35	33
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29
8	57	43	34	28	56	42	34	28	41	33	28	40	33	28	39	32	27	25
9	53	39	31	25	52	39	31	25	38	30	25	36	30	25	35	29	24	23
10	50	36	28	22	49	36	28	22	35	27	22	34	27	22	33	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2761
5°	2772
10°	2804
15°	2859
20°	2929
25°	3026
30°	3156
35°	3324
40°	3530
45°	3784
50°	3971
55°	4050
60°	3999
65°	3876
70°	3619
75°	3237
80°	2740
85°	2182

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 4050 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.1	2.4
10°-20°	98.4	7.2
20°-30°	159.4	11.7
30°-40°	214.7	15.7
40°-50°	258.4	18.9
50°-60°	259.5	19.0
60°-70°	202.8	14.8
70°-80°	112.3	8.2
80°-90°	28.6	2.1
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°	290.9	21.3
0°-40°	505.6	37.0
0°-60°	1023.6	74.9
0°-90°	1367.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1367.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	347	
5°	347	33
15°	347	98
25°	345	159
35°	342	215
45°	336	258
55°	292	260
65°	206	203
75°	105	112
85°	24	29
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	347.1
2.5°	347.1
5°	347.1
7.5°	347.1
10°	347.1
12.5°	348.3
15°	347.1
17.5°	347.1
20°	345.9
22.5°	344.7
25°	344.7
27.5°	343.5
30°	343.5
32.5°	342.3
35°	342.3
37.5°	341.1
40°	339.9
42.5°	338.7
45°	336.3
47.5°	330.3
50°	320.8
52.5°	308.8
55°	292.0
57.5°	272.9
60°	251.3
62.5°	229.8
65°	205.9
67.5°	180.7
70°	155.6
72.5°	130.5
75°	105.3
77.5°	82.6
80°	59.8
82.5°	40.7
85°	23.9
87.5°	10.8
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	17.55	19.29	17.92	19.60	19.92	17.55	19.29	17.92	19.60	19.92
	3H	19.39	20.96	19.76	21.29	21.65	19.39	20.96	19.76	21.29	21.65
	4H	20.03	21.52	20.43	21.86	22.24	20.03	21.52	20.43	21.86	22.24
	6H	20.47	21.86	20.88	22.22	22.61	20.47	21.86	20.88	22.22	22.61
	8H	20.60	21.93	21.02	22.31	22.71	20.60	21.93	21.02	22.31	22.71
	12H	20.68	21.95	21.11	22.33	22.76	20.68	21.95	21.11	22.33	22.76
4H	2H	18.23	19.71	18.62	20.06	20.43	18.23	19.71	18.62	20.06	20.43
	3H	20.26	21.52	20.67	21.91	22.31	20.26	21.52	20.67	21.91	22.31
	4H	21.03	22.16	21.46	22.57	23.01	21.03	22.16	21.46	22.57	23.01
	6H	21.59	22.58	22.04	23.02	23.47	21.59	22.58	22.04	23.02	23.47
	8H	21.76	22.69	22.21	23.13	23.59	21.76	22.69	22.21	23.13	23.59
	12H	21.88	22.72	22.36	23.19	23.66	21.88	22.72	22.36	23.19	23.66
8H	4H	21.33	22.27	21.79	22.71	23.17	21.33	22.27	21.79	22.71	23.17
	6H	22.00	22.78	22.49	23.26	23.74	22.00	22.78	22.49	23.26	23.74
	8H	22.23	22.93	22.74	23.43	23.92	22.23	22.93	22.74	23.43	23.92
	12H	22.41	23.03	22.92	23.52	24.08	22.41	23.03	22.92	23.52	24.08
12H	4H	21.37	22.21	21.84	22.68	23.15	21.37	22.21	21.84	22.68	23.15
	6H	22.05	22.75	22.55	23.25	23.73	22.05	22.75	22.55	23.25	23.73
	8H	22.33	22.95	22.84	23.44	24.00	22.33	22.95	22.84	23.44	24.00