

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: P866215

Luminaire Tested: PRLX-2002-M-930-07L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866215
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-38)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-M-930-07L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

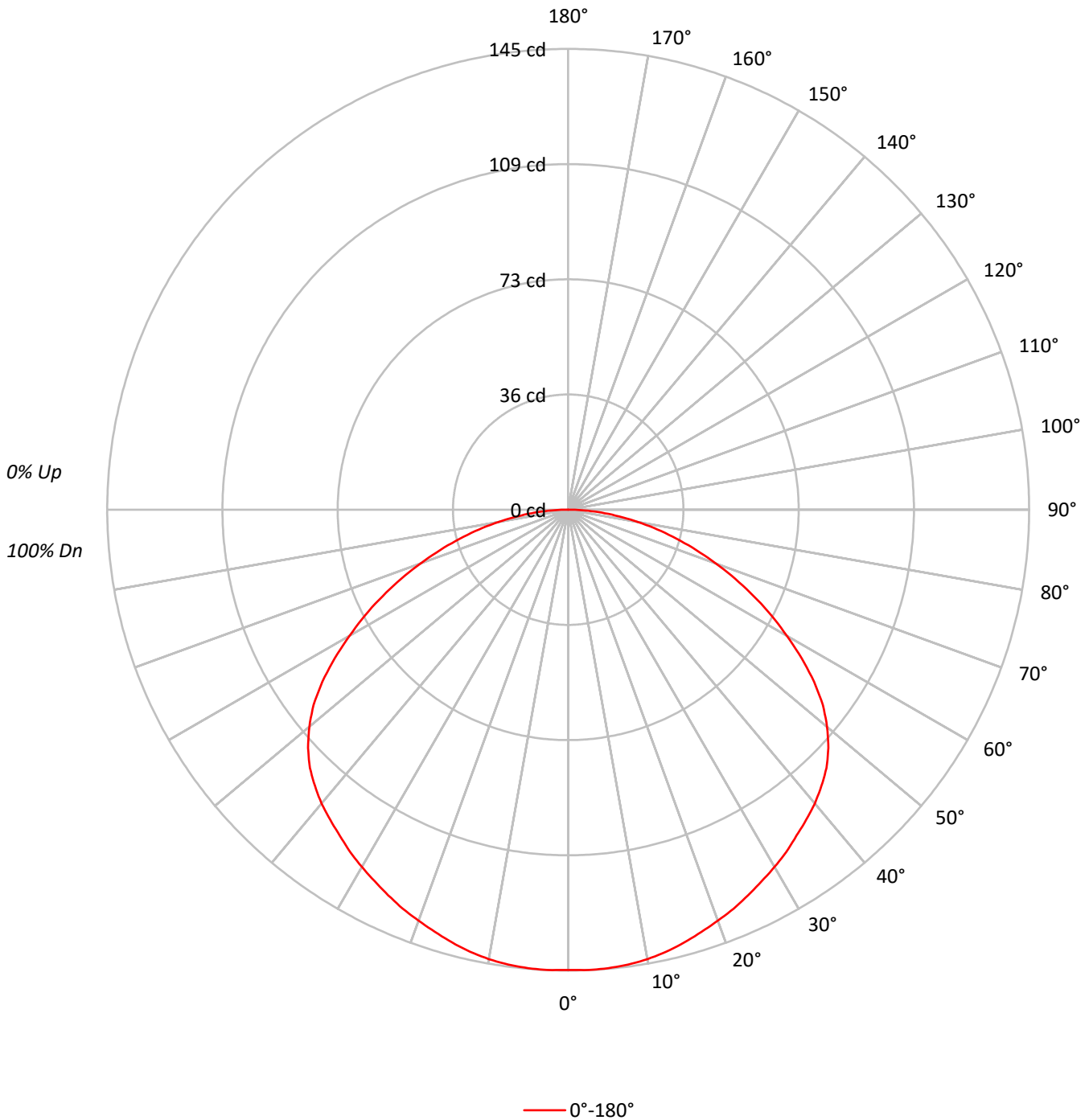
Lumens per Lamp: N/A
Luminaire Lumens: 479.4 lumens
Efficiency: N/A
Efficacy: 58.5 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.5
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 8.2
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: 0.333 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	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	48
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	35	30	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1152
5°	1156
10°	1160
15°	1161
20°	1165
25°	1175
30°	1192
35°	1216
40°	1254
45°	1293
50°	1316
55°	1309
60°	1263
65°	1212
70°	1149
75°	1085
80°	1022
85°	958

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 1320 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.8	2.9
10°-20°	39.8	8.3
20°-30°	61.8	12.9
30°-40°	78.6	16.4
40°-50°	88.4	18.4
50°-60°	84.0	17.5
60°-70°	63.8	13.3
70°-80°	37.5	7.8
80°-90°	11.7	2.4
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°	115.5	24.1
0°-40°	194.1	40.5
0°-60°	366.4	76.4
0°-90°	479.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	479.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	145	
5°	145	14
15°	141	40
25°	134	62
35°	125	79
45°	115	88
55°	94	84
65°	64	64
75°	35	37
85°	10	12
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	144.8
2.5°	145.0
5°	144.8
7.5°	144.4
10°	143.6
12.5°	142.5
15°	141.0
17.5°	139.3
20°	137.6
22.5°	135.9
25°	133.9
27.5°	131.8
30°	129.8
32.5°	127.7
35°	125.2
37.5°	123.0
40°	120.7
42.5°	117.9
45°	114.9
47.5°	111.0
50°	106.3
52.5°	101.0
55°	94.4
57.5°	87.1
60°	79.4
62.5°	72.1
65°	64.4
67.5°	56.9
70°	49.4
72.5°	42.2
75°	35.3
77.5°	28.7
80°	22.3
82.5°	16.1
85°	10.5
87.5°	5.3
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	13.31	15.00	13.67	15.32	15.63	13.31	15.00	13.67	15.32	15.63
	3H	15.11	16.65	15.48	16.97	17.33	15.11	16.65	15.48	16.97	17.33
	4H	15.80	17.25	16.20	17.60	17.97	15.80	17.25	16.20	17.60	17.97
	6H	16.35	17.70	16.76	18.06	18.45	16.35	17.70	16.76	18.06	18.45
	8H	16.54	17.83	16.96	18.22	18.62	16.54	17.83	16.96	18.22	18.62
	12H	16.68	17.92	17.11	18.30	18.73	16.68	17.92	17.11	18.30	18.73
4H	2H	13.94	15.40	14.34	15.74	16.12	13.94	15.40	14.34	15.74	16.12
	3H	15.97	17.19	16.38	17.59	17.99	15.97	17.19	16.38	17.59	17.99
	4H	16.80	17.91	17.23	18.32	18.75	16.80	17.91	17.23	18.32	18.75
	6H	17.49	18.46	17.94	18.90	19.35	17.49	18.46	17.94	18.90	19.35
	8H	17.74	18.65	18.19	19.09	19.55	17.74	18.65	18.19	19.09	19.55
	12H	17.93	18.75	18.41	19.23	19.70	17.93	18.75	18.41	19.23	19.70
8H	4H	17.14	18.05	17.60	18.49	18.95	17.14	18.05	17.60	18.49	18.95
	6H	17.96	18.72	18.45	19.21	19.68	17.96	18.72	18.45	19.21	19.68
	8H	18.29	18.98	18.80	19.48	19.96	18.29	18.98	18.80	19.48	19.96
	12H	18.58	19.19	19.08	19.67	20.23	18.58	19.19	19.08	19.67	20.23
12H	4H	17.18	18.01	17.66	18.48	18.95	17.18	18.01	17.66	18.48	18.95
	6H	18.03	18.72	18.54	19.22	19.71	18.03	18.72	18.54	19.22	19.71
	8H	18.43	19.04	18.93	19.52	20.08	18.43	19.04	18.93	19.52	20.08