

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: P866151

Luminaire Tested: PRLX-2002-M-927-07L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866151
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-927-07L-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

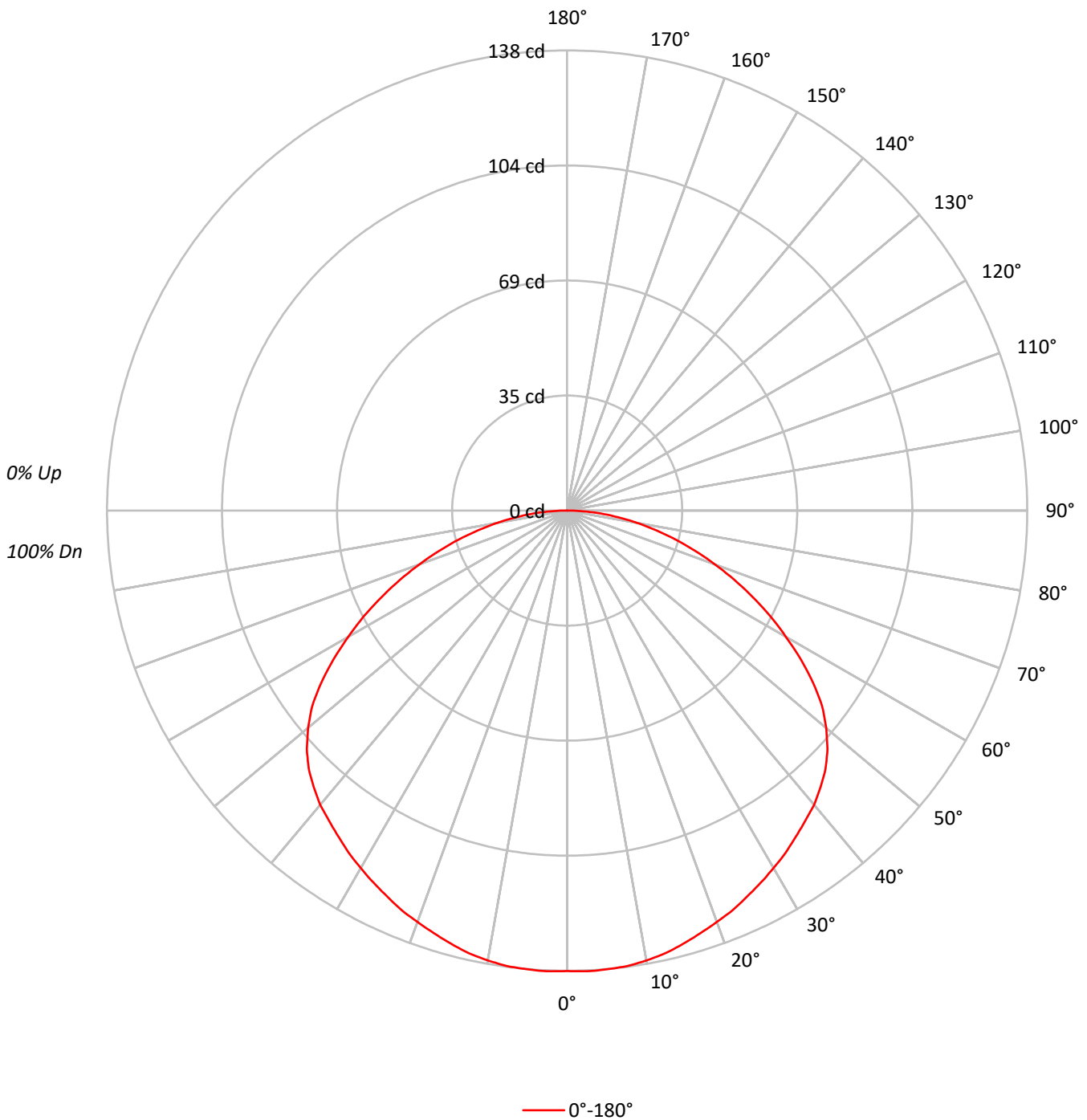
Lumens per Lamp: N/A
Luminaire Lumens: 457.4 lumens
Efficiency: N/A
Efficacy: 55.8 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.5
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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°	1099
5°	1103
10°	1107
15°	1108
20°	1112
25°	1121
30°	1137
35°	1161
40°	1196
45°	1233
50°	1255
55°	1250
60°	1206
65°	1156
70°	1096
75°	1036
80°	976
85°	913

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 1260 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.2	2.9
10°-20°	38.0	8.3
20°-30°	59.0	12.9
30°-40°	75.0	16.4
40°-50°	84.3	18.4
50°-60°	80.1	17.5
60°-70°	60.9	13.3
70°-80°	35.8	7.8
80°-90°	11.2	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°	110.2	24.1
0°-40°	185.1	40.5
0°-60°	349.6	76.4
0°-90°	457.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	457.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	138	
5°	138	13
15°	134	38
25°	128	59
35°	120	75
45°	110	84
55°	90	80
65°	61	61
75°	34	36
85°	10	11
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	138.1
2.5°	138.3
5°	138.1
7.5°	137.8
10°	137.0
12.5°	136.0
15°	134.5
17.5°	132.9
20°	131.3
22.5°	129.7
25°	127.7
27.5°	125.8
30°	123.8
32.5°	121.8
35°	119.5
37.5°	117.3
40°	115.2
42.5°	112.5
45°	109.6
47.5°	105.9
50°	101.4
52.5°	96.4
55°	90.1
57.5°	83.1
60°	75.8
62.5°	68.8
65°	61.4
67.5°	54.3
70°	47.1
72.5°	40.3
75°	33.7
77.5°	27.4
80°	21.3
82.5°	15.4
85°	10.0
87.5°	5.0
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	13.14	14.84	13.51	15.15	15.47	13.14	14.84	13.51	15.15	15.47
	3H	14.94	16.48	15.32	16.81	17.17	14.94	16.48	15.32	16.81	17.17
	4H	15.64	17.09	16.04	17.44	17.81	15.64	17.09	16.04	17.44	17.81
	6H	16.19	17.53	16.60	17.90	18.29	16.19	17.53	16.60	17.90	18.29
	8H	16.38	17.67	16.80	18.06	18.45	16.38	17.67	16.80	18.06	18.45
	12H	16.52	17.76	16.95	18.14	18.57	16.52	17.76	16.95	18.14	18.57
4H	2H	13.78	15.23	14.18	15.58	15.95	13.78	15.23	14.18	15.58	15.95
	3H	15.81	17.03	16.21	17.42	17.82	15.81	17.03	16.21	17.42	17.82
	4H	16.64	17.75	17.07	18.16	18.59	16.64	17.75	17.07	18.16	18.59
	6H	17.33	18.30	17.78	18.74	19.19	17.33	18.30	17.78	18.74	19.19
	8H	17.57	18.49	18.03	18.93	19.39	17.57	18.49	18.03	18.93	19.39
	12H	17.77	18.59	18.25	19.07	19.53	17.77	18.59	18.25	19.07	19.53
8H	4H	16.98	17.89	17.43	18.33	18.79	16.98	17.89	17.43	18.33	18.79
	6H	17.80	18.56	18.29	19.05	19.52	17.80	18.56	18.29	19.05	19.52
	8H	18.13	18.82	18.64	19.32	19.80	18.13	18.82	18.64	19.32	19.80
	12H	18.42	19.02	18.92	19.51	20.07	18.42	19.02	18.92	19.51	20.07
12H	4H	17.02	17.84	17.50	18.32	18.78	17.02	17.84	17.50	18.32	18.78
	6H	17.87	18.56	18.38	19.06	19.55	17.87	18.56	18.38	19.06	19.55
	8H	18.27	18.88	18.77	19.37	19.92	18.27	18.88	18.77	19.37	19.92