

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: P866155

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866155
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-50)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-927-07L-L-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

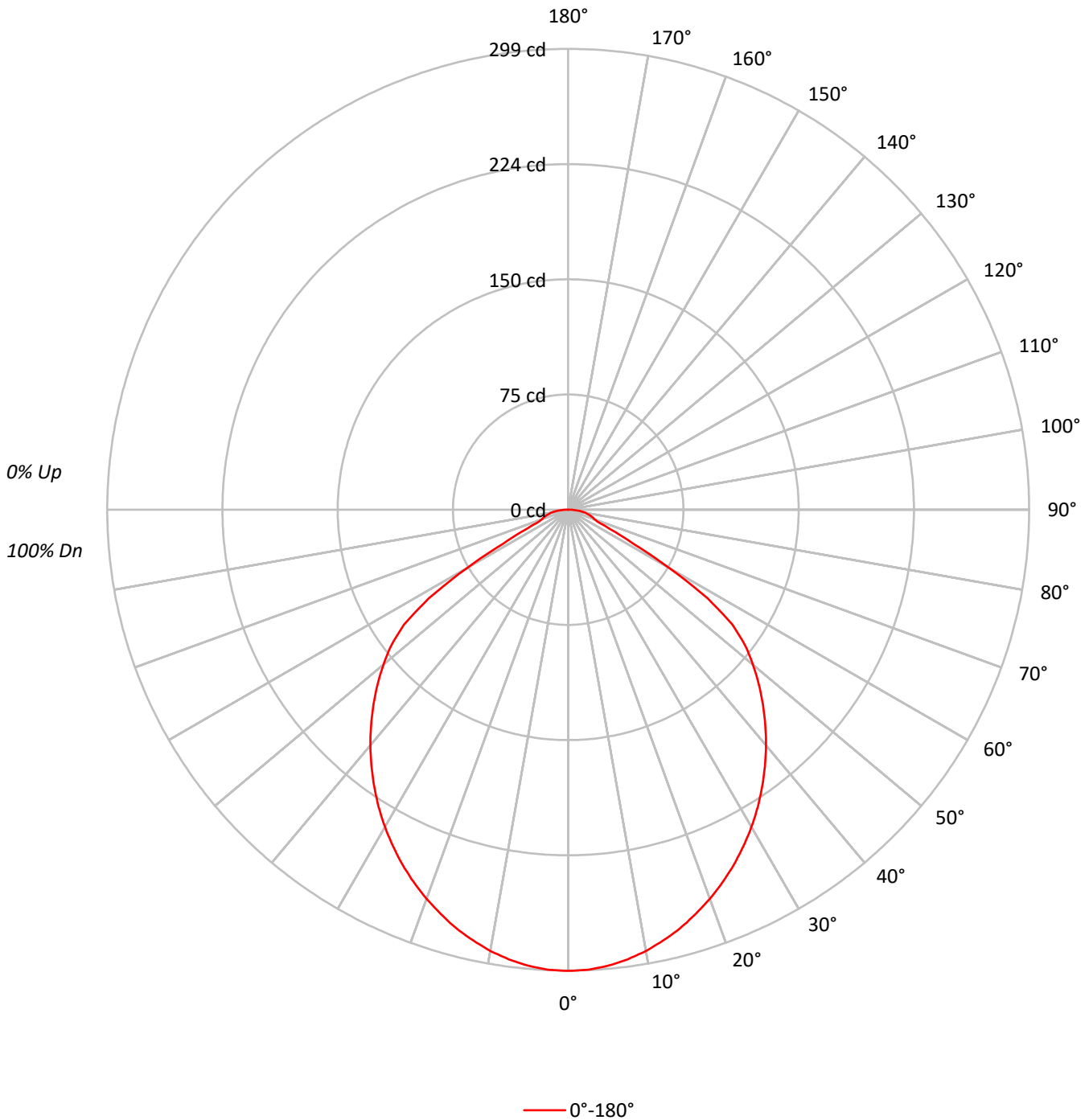
Lumens per Lamp: N/A
Luminaire Lumens: 668.2 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P866155

CATALOG NUMBER: PRLX-2002-M-927-07L-L-U-S-X-X-WHHR-X

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	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	89	87
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	57
5	80	68	60	54	78	67	60	54	65	58	53	63	57	53	62	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	40
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	47	40	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2380
5°	2372
10°	2348
15°	2315
20°	2275
25°	2231
30°	2184
35°	2130
40°	2073
45°	2009
50°	1936
55°	1805
60°	1211
65°	574
70°	421
75°	452
80°	499
85°	557

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2009 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.2	4.2
10°-20°	79.2	11.9
20°-30°	117.1	17.5
30°-40°	137.2	20.5
40°-50°	137.7	20.6
50°-60°	111.1	16.6
60°-70°	35.9	5.4
70°-80°	15.5	2.3
80°-90°	6.4	1.0
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°	224.4	33.6
0°-40°	361.6	54.1
0°-60°	610.3	91.3
0°-90°	668.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	668.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	299	
5°	297	28
15°	281	79
25°	254	117
35°	219	137
45°	179	138
55°	130	111
65°	30	36
75°	15	16
85°	6	6
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	299.2
2.5°	298.8
5°	297.0
7.5°	294.3
10°	290.7
12.5°	286.1
15°	281.1
17.5°	275.0
20°	268.7
22.5°	261.7
25°	254.2
27.5°	246.1
30°	237.7
32.5°	228.8
35°	219.3
37.5°	209.6
40°	199.6
42.5°	189.2
45°	178.6
47.5°	167.7
50°	156.4
52.5°	144.7
55°	130.1
57.5°	107.3
60°	76.1
62.5°	47.6
65°	30.5
67.5°	21.0
70°	18.1
72.5°	16.7
75°	14.7
77.5°	12.9
80°	10.9
82.5°	8.8
85°	6.1
87.5°	3.2
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	13.75	15.25	14.11	15.56	15.88	13.75	15.25	14.11	15.56	15.88
	3H	13.86	15.19	14.23	15.52	15.88	13.86	15.19	14.23	15.52	15.88
	4H	13.94	15.19	14.34	15.54	15.92	13.94	15.19	14.34	15.54	15.92
	6H	14.06	15.20	14.47	15.57	15.96	14.06	15.20	14.47	15.57	15.96
	8H	14.11	15.20	14.54	15.59	15.99	14.11	15.20	14.54	15.59	15.99
	12H	14.16	15.20	14.59	15.59	16.02	14.16	15.20	14.59	15.59	16.02
4H	2H	13.71	14.96	14.11	15.30	15.68	13.71	14.96	14.11	15.30	15.68
	3H	13.92	14.93	14.33	15.33	15.74	13.92	14.93	14.33	15.33	15.74
	4H	14.07	14.98	14.51	15.40	15.84	14.07	14.98	14.51	15.40	15.84
	6H	14.29	15.08	14.75	15.53	15.99	14.29	15.08	14.75	15.53	15.99
	8H	14.40	15.14	14.86	15.58	16.05	14.40	15.14	14.86	15.58	16.05
	12H	14.50	15.16	14.98	15.64	16.11	14.50	15.16	14.98	15.64	16.11
8H	4H	14.09	14.83	14.55	15.27	15.74	14.09	14.83	14.55	15.27	15.74
	6H	14.39	15.00	14.89	15.49	15.97	14.39	15.00	14.89	15.49	15.97
	8H	14.56	15.11	15.07	15.62	16.11	14.56	15.11	15.07	15.62	16.11
	12H	14.73	15.23	15.24	15.72	16.29	14.73	15.23	15.24	15.72	16.29
12H	4H	14.08	14.74	14.56	15.22	15.69	14.08	14.74	14.56	15.22	15.69
	6H	14.39	14.95	14.91	15.46	15.95	14.39	14.95	14.91	15.46	15.95
	8H	14.61	15.11	15.12	15.60	16.16	14.61	15.11	15.12	15.60	16.16