

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: P866158

Luminaire Tested: PRLX-2002-M-927-15L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866158
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-40)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-927-15L-G-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

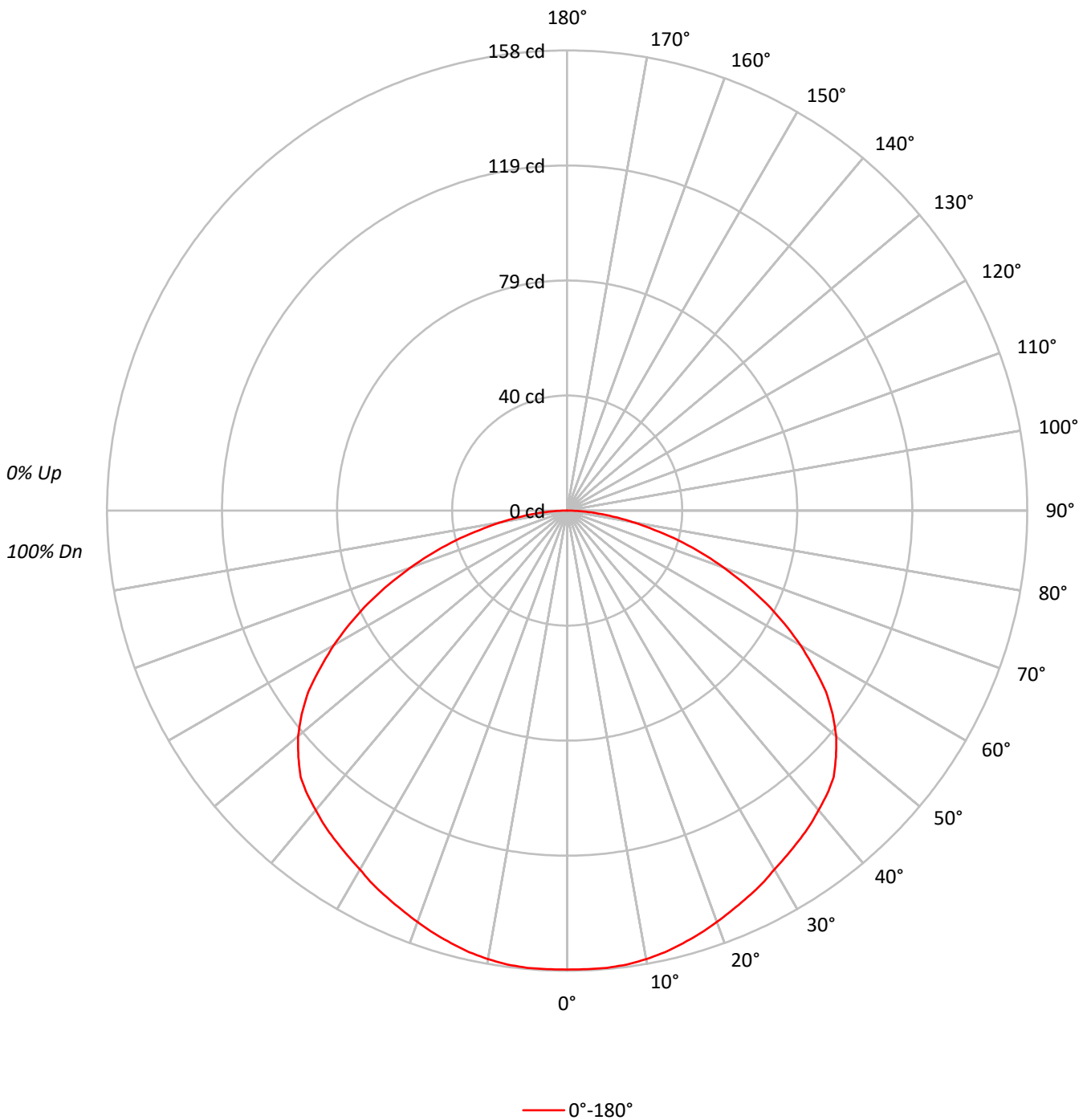
Lumens per Lamp: N/A
Luminaire Lumens: 536.2 lumens
Efficiency: N/A
Efficacy: 38.3 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.53
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 14
Input Voltage (V): 120
Input Current (Ain): 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	72		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		68	63	58	56
4	81	68	59	52	78	67	58	52	64	57	51		62	55	50		60	54	49	47
5	74	61	51	44	72	59	51	44	57	49	44		55	48	43		53	47	43	40
6	68	54	45	38	66	53	44	38	51	44	38		50	43	37		48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33		45	38	33		44	37	33	31
8	58	44	36	30	57	44	35	30	42	35	29		41	34	29		40	34	29	27
9	55	41	32	26	53	40	32	26	39	31	26		38	31	26		37	31	26	24
10	51	37	29	24	50	37	29	24	36	29	24		35	28	24		34	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1254
5°	1259
10°	1263
15°	1267
20°	1272
25°	1286
30°	1307
35°	1345
40°	1395
45°	1456
50°	1493
55°	1505
60°	1472
65°	1419
70°	1328
75°	1217
80°	1063
85°	867

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 1505 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.0	2.8
10°-20°	43.5	8.1
20°-30°	67.7	12.6
30°-40°	86.9	16.2
40°-50°	99.4	18.5
50°-60°	96.3	18.0
60°-70°	74.3	13.9
70°-80°	41.9	7.8
80°-90°	11.2	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°	126.2	23.5
0°-40°	213.0	39.7
0°-60°	408.7	76.2
0°-90°	536.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	536.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	158	
5°	158	15
15°	154	43
25°	146	68
35°	138	87
45°	129	99
55°	108	96
65°	75	74
75°	40	42
85°	10	11
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	157.6
2.5°	157.6
5°	157.6
7.5°	157.2
10°	156.4
12.5°	155.3
15°	153.8
17.5°	152.2
20°	150.3
22.5°	148.4
25°	146.5
27.5°	144.6
30°	142.3
32.5°	140.4
35°	138.5
37.5°	136.6
40°	134.3
42.5°	132.1
45°	129.4
47.5°	125.2
50°	120.6
52.5°	114.9
55°	108.5
57.5°	100.5
60°	92.5
62.5°	84.1
65°	75.4
67.5°	66.2
70°	57.1
72.5°	48.3
75°	39.6
77.5°	30.8
80°	23.2
82.5°	16.0
85°	9.5
87.5°	4.2
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	13.91	15.61	14.27	15.92	16.24	13.91	15.61	14.27	15.92	16.24
	3H	15.72	17.27	16.10	17.59	17.95	15.72	17.27	16.10	17.59	17.95
	4H	16.39	17.84	16.78	18.19	18.56	16.39	17.84	16.78	18.19	18.56
	6H	16.85	18.20	17.26	18.57	18.96	16.85	18.20	17.26	18.57	18.96
	8H	17.00	18.29	17.42	18.68	19.08	17.00	18.29	17.42	18.68	19.08
	12H	17.09	18.33	17.52	18.71	19.14	17.09	18.33	17.52	18.71	19.14
4H	2H	14.57	16.02	14.96	16.37	16.74	14.57	16.02	14.96	16.37	16.74
	3H	16.59	17.82	17.00	18.22	18.62	16.59	17.82	17.00	18.22	18.62
	4H	17.38	18.49	17.81	18.90	19.34	17.38	18.49	17.81	18.90	19.34
	6H	17.97	18.94	18.42	19.38	19.83	17.97	18.94	18.42	19.38	19.83
	8H	18.16	19.07	18.62	19.51	19.98	18.16	19.07	18.62	19.51	19.98
	12H	18.30	19.12	18.77	19.59	20.06	18.30	19.12	18.77	19.59	20.06
8H	4H	17.69	18.60	18.15	19.04	19.51	17.69	18.60	18.15	19.04	19.51
	6H	18.39	19.15	18.89	19.64	20.11	18.39	19.15	18.89	19.64	20.11
	8H	18.65	19.34	19.16	19.84	20.32	18.65	19.34	19.16	19.84	20.32
	12H	18.86	19.46	19.36	19.95	20.51	18.86	19.46	19.36	19.95	20.51
12H	4H	17.73	18.55	18.21	19.02	19.49	17.73	18.55	18.21	19.02	19.49
	6H	18.45	19.13	18.95	19.64	20.12	18.45	19.13	18.95	19.64	20.12
	8H	18.76	19.37	19.27	19.86	20.42	18.76	19.37	19.27	19.86	20.42