

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: P865415

Luminaire Tested: PRLX-2001-S-927-05L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865415
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-2001-S-927-05L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

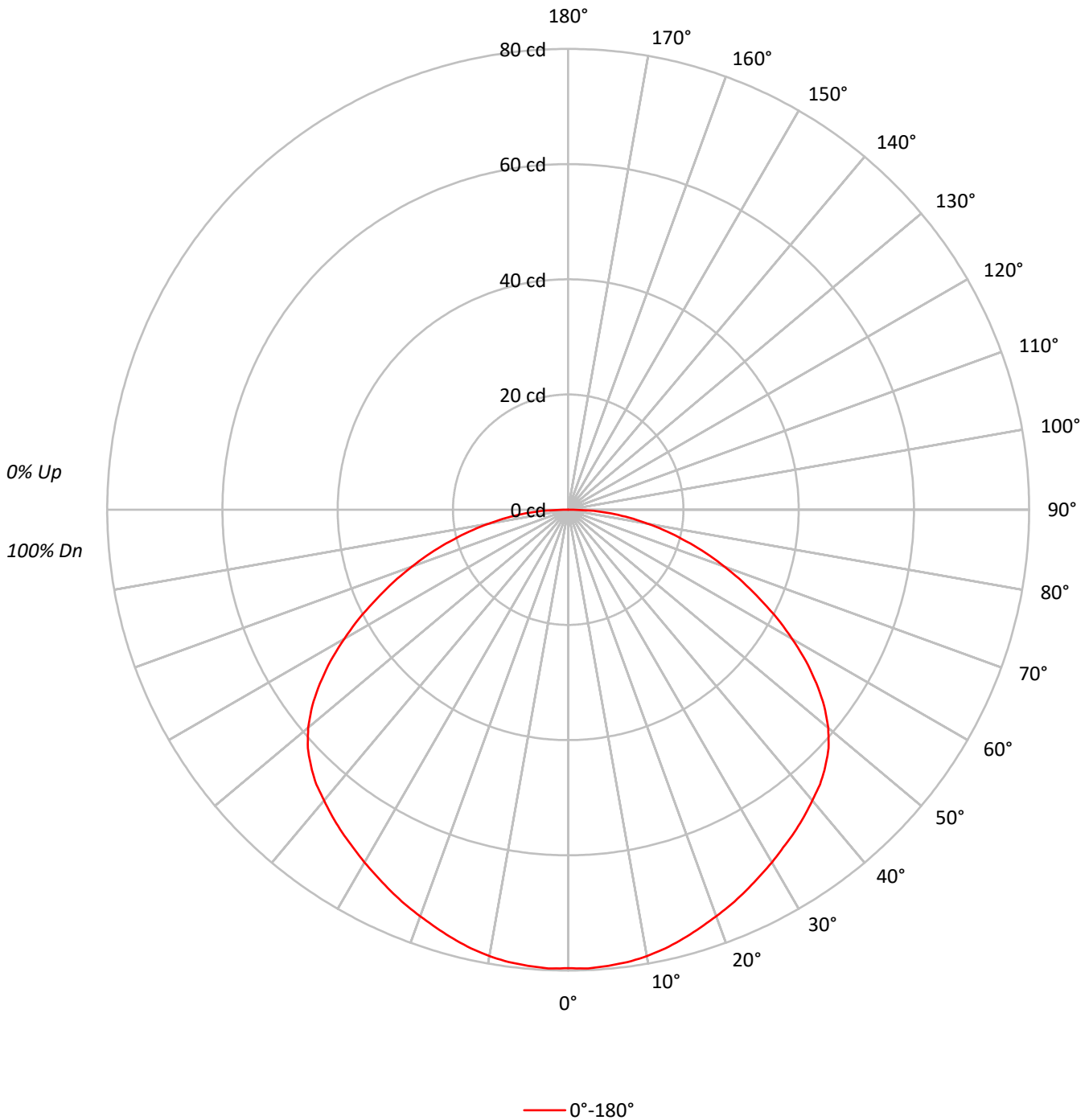
Lumens per Lamp: N/A
Luminaire Lumens: 268.4 lumens
Efficiency: N/A
Efficacy: 43.3 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.5
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 6.2
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: 0.5 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	92	89		92	89	86		88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72		80	75	71		77	73	69	67
3	88	77	68	61	86	75	67	61	72	65	60		70	64	59		67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50		61	55	50		59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43		55	48	43		53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37		49	42	37		48	42	37	35
7	63	49	40	33	61	48	39	33	46	38	33		45	38	33		43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29		41	34	29		40	33	29	27
9	54	41	32	26	53	40	32	26	39	31	26		38	31	26		37	30	26	24
10	51	37	29	24	50	37	29	24	36	29	24		35	28	23		34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1298
5°	1302
10°	1303
15°	1302
20°	1304
25°	1314
30°	1332
35°	1362
40°	1403
45°	1455
50°	1495
55°	1496
60°	1465
65°	1416
70°	1373
75°	1336
80°	1324
85°	1385

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 1645 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.6	2.8
10°-20°	21.8	8.1
20°-30°	33.7	12.6
30°-40°	42.9	16.0
40°-50°	48.6	18.1
50°-60°	46.8	17.5
60°-70°	36.4	13.6
70°-80°	22.5	8.4
80°-90°	8.0	3.0
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°	63.1	23.5
0°-40°	105.9	39.5
0°-60°	201.4	75.0
0°-90°	268.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	268.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	80	
5°	80	8
15°	77	22
25°	73	34
35°	68	43
45°	63	49
55°	53	47
65°	37	36
75°	21	23
85°	7	8
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	79.6
2.5°	79.7
5°	79.5
7.5°	79.2
10°	78.7
12.5°	78.0
15°	77.1
17.5°	76.1
20°	75.1
22.5°	74.1
25°	73.0
27.5°	71.8
30°	70.7
32.5°	69.5
35°	68.4
37.5°	67.2
40°	65.9
42.5°	64.7
45°	63.1
47.5°	61.3
50°	58.9
52.5°	56.0
55°	52.6
57.5°	48.9
60°	44.9
62.5°	40.9
65°	36.7
67.5°	32.8
70°	28.8
72.5°	25.1
75°	21.2
77.5°	17.6
80°	14.1
82.5°	10.7
85°	7.4
87.5°	4.4
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	13.79	15.50	14.15	15.81	16.13	13.79	15.50	14.15	15.81	16.13
	3H	15.68	17.23	16.06	17.56	17.92	15.68	17.23	16.06	17.56	17.92
	4H	16.44	17.91	16.84	18.26	18.63	16.44	17.91	16.84	18.26	18.63
	6H	17.08	18.45	17.49	18.81	19.20	17.08	18.45	17.49	18.81	19.20
	8H	17.33	18.63	17.75	19.02	19.42	17.33	18.63	17.75	19.02	19.42
	12H	17.53	18.78	17.96	19.17	19.59	17.53	18.78	17.96	19.17	19.59
4H	2H	14.45	15.91	14.84	16.26	16.63	14.45	15.91	14.84	16.26	16.63
	3H	16.57	17.81	16.98	18.21	18.61	16.57	17.81	16.98	18.21	18.61
	4H	17.48	18.61	17.91	19.02	19.45	17.48	18.61	17.91	19.02	19.45
	6H	18.27	19.26	18.72	19.70	20.15	18.27	19.26	18.72	19.70	20.15
	8H	18.58	19.51	19.04	19.95	20.42	18.58	19.51	19.04	19.95	20.42
	12H	18.85	19.69	19.33	20.17	20.63	18.85	19.69	19.33	20.17	20.63
8H	4H	17.86	18.79	18.31	19.23	19.69	17.86	18.79	18.31	19.23	19.69
	6H	18.80	19.58	19.29	20.06	20.54	18.80	19.58	19.29	20.06	20.54
	8H	19.21	19.91	19.72	20.42	20.90	19.21	19.91	19.72	20.42	20.90
	12H	19.59	20.22	20.10	20.71	21.26	19.59	20.22	20.10	20.71	21.26
12H	4H	17.92	18.75	18.39	19.23	19.70	17.92	18.75	18.39	19.23	19.70
	6H	18.89	19.60	19.40	20.10	20.58	18.89	19.60	19.40	20.10	20.58
	8H	19.38	20.00	19.89	20.49	21.05	19.38	20.00	19.89	20.49	21.05