

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: P865932

Luminaire Tested: PRLX-2001-M-927-55L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865932
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-37)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-927-55L-G-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

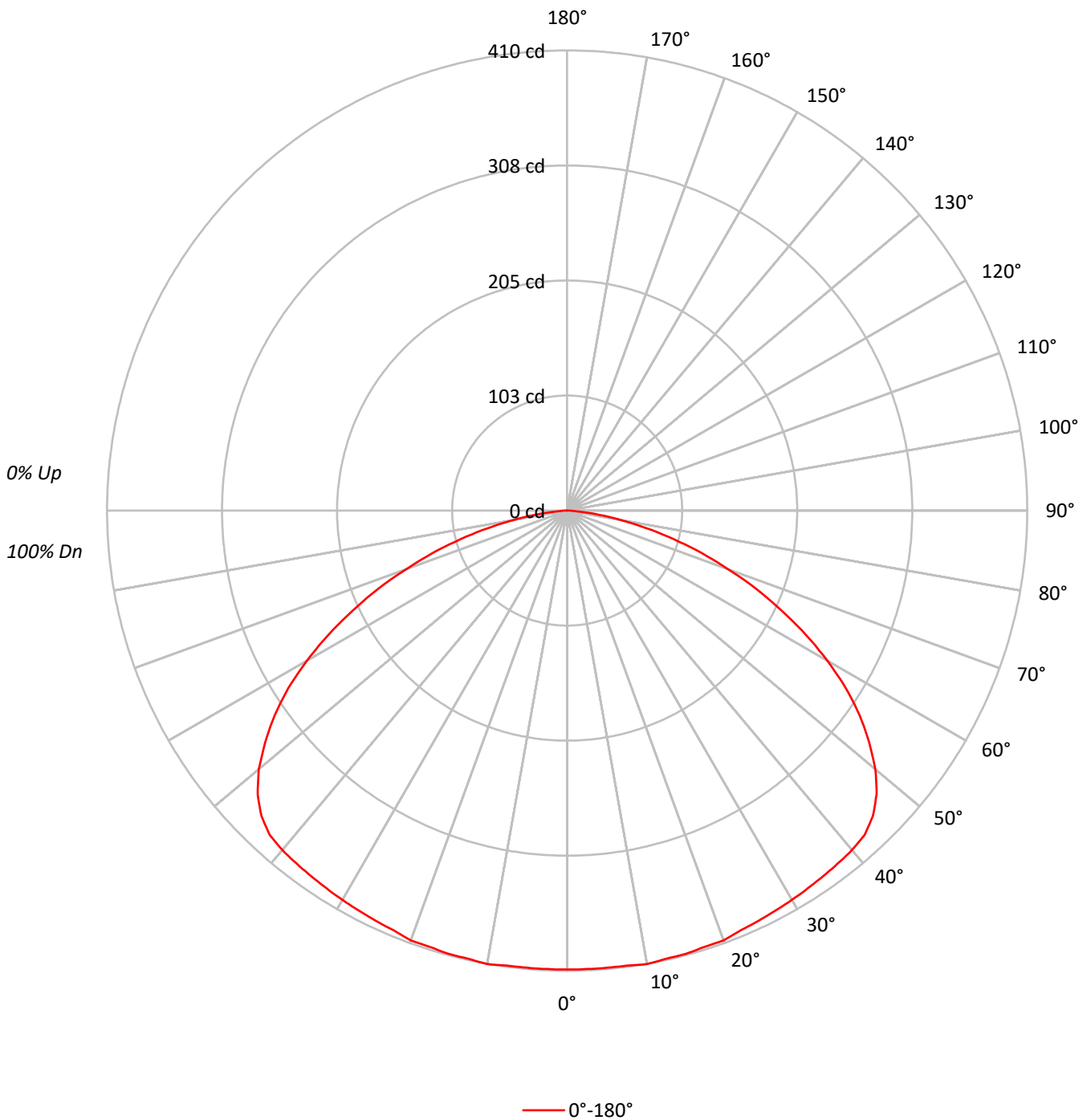
Lumens per Lamp: N/A
Luminaire Lumens: 1501.5 lumens
Efficiency: N/A
Efficacy: 31.1 lumens/watt
Spacing Criteria (0/90/45): 1.49 / 1.49 / 1.63
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 48.3
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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	76	69	62	73	67	61	71	65	60	68	63	59	57
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	54	45	38	66	53	45	38	52	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	30
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	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	28	23	35	28	23	34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3470
5°	3483
10°	3536
15°	3592
20°	3680
25°	3776
30°	3924
35°	4120
40°	4375
45°	4623
50°	4734
55°	4708
60°	4547
65°	4231
70°	3774
75°	3203
80°	2385
85°	1227

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 4734 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.1	2.6
10°-20°	115.8	7.7
20°-30°	186.7	12.4
30°-40°	249.8	16.6
40°-50°	295.5	19.7
50°-60°	283.0	18.8
60°-70°	208.6	13.9
70°-80°	104.4	7.0
80°-90°	18.8	1.3
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°	341.5	22.7
0°-40°	591.3	39.4
0°-60°	1169.7	77.9
0°-90°	1501.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1501.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	409	
5°	409	39
15°	409	116
25°	403	187
35°	398	250
45°	385	295
55°	318	283
65°	211	209
75°	98	104
85°	13	19
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	408.9
2.5°	408.9
5°	408.9
7.5°	408.9
10°	410.3
12.5°	408.9
15°	408.9
17.5°	407.5
20°	407.5
22.5°	404.7
25°	403.3
27.5°	401.9
30°	400.5
32.5°	399.1
35°	397.7
37.5°	396.3
40°	394.9
42.5°	392.1
45°	385.2
47.5°	374.0
50°	358.6
52.5°	339.1
55°	318.2
57.5°	294.5
60°	267.9
62.5°	240.0
65°	210.7
67.5°	182.8
70°	152.1
72.5°	125.6
75°	97.7
77.5°	72.6
80°	48.8
82.5°	29.3
85°	12.6
87.5°	2.8
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	18.02	19.72	18.39	20.04	20.35	18.02	19.72	18.39	20.04	20.35
	3H	19.64	21.17	20.01	21.50	21.86	19.64	21.17	20.01	21.50	21.86
	4H	20.16	21.61	20.55	21.95	22.33	20.16	21.61	20.55	21.95	22.33
	6H	20.46	21.80	20.87	22.16	22.55	20.46	21.80	20.87	22.16	22.55
	8H	20.52	21.80	20.94	22.19	22.59	20.52	21.80	20.94	22.19	22.59
	12H	20.54	21.77	20.96	22.15	22.58	20.54	21.77	20.96	22.15	22.58
4H	2H	18.62	20.07	19.02	20.42	20.79	18.62	20.07	19.02	20.42	20.79
	3H	20.43	21.65	20.84	22.04	22.44	20.43	21.65	20.84	22.04	22.44
	4H	21.06	22.16	21.49	22.57	23.00	21.06	22.16	21.49	22.57	23.00
	6H	21.45	22.41	21.91	22.85	23.30	21.45	22.41	21.91	22.85	23.30
	8H	21.54	22.44	22.00	22.88	23.34	21.54	22.44	22.00	22.88	23.34
	12H	21.58	22.38	22.06	22.86	23.32	21.58	22.38	22.06	22.86	23.32
8H	4H	21.30	22.19	21.76	22.63	23.10	21.30	22.19	21.76	22.63	23.10
	6H	21.76	22.51	22.26	22.99	23.47	21.76	22.51	22.26	22.99	23.47
	8H	21.89	22.55	22.39	23.06	23.54	21.89	22.55	22.39	23.06	23.54
	12H	21.95	22.54	22.45	23.03	23.59	21.95	22.54	22.45	23.03	23.59
12H	4H	21.31	22.12	21.79	22.59	23.06	21.31	22.12	21.79	22.59	23.06
	6H	21.78	22.45	22.29	22.95	23.44	21.78	22.45	22.29	22.95	23.44
	8H	21.94	22.53	22.44	23.02	23.58	21.94	22.53	22.44	23.02	23.58