

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: P865938

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865938
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-927-55L-L-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

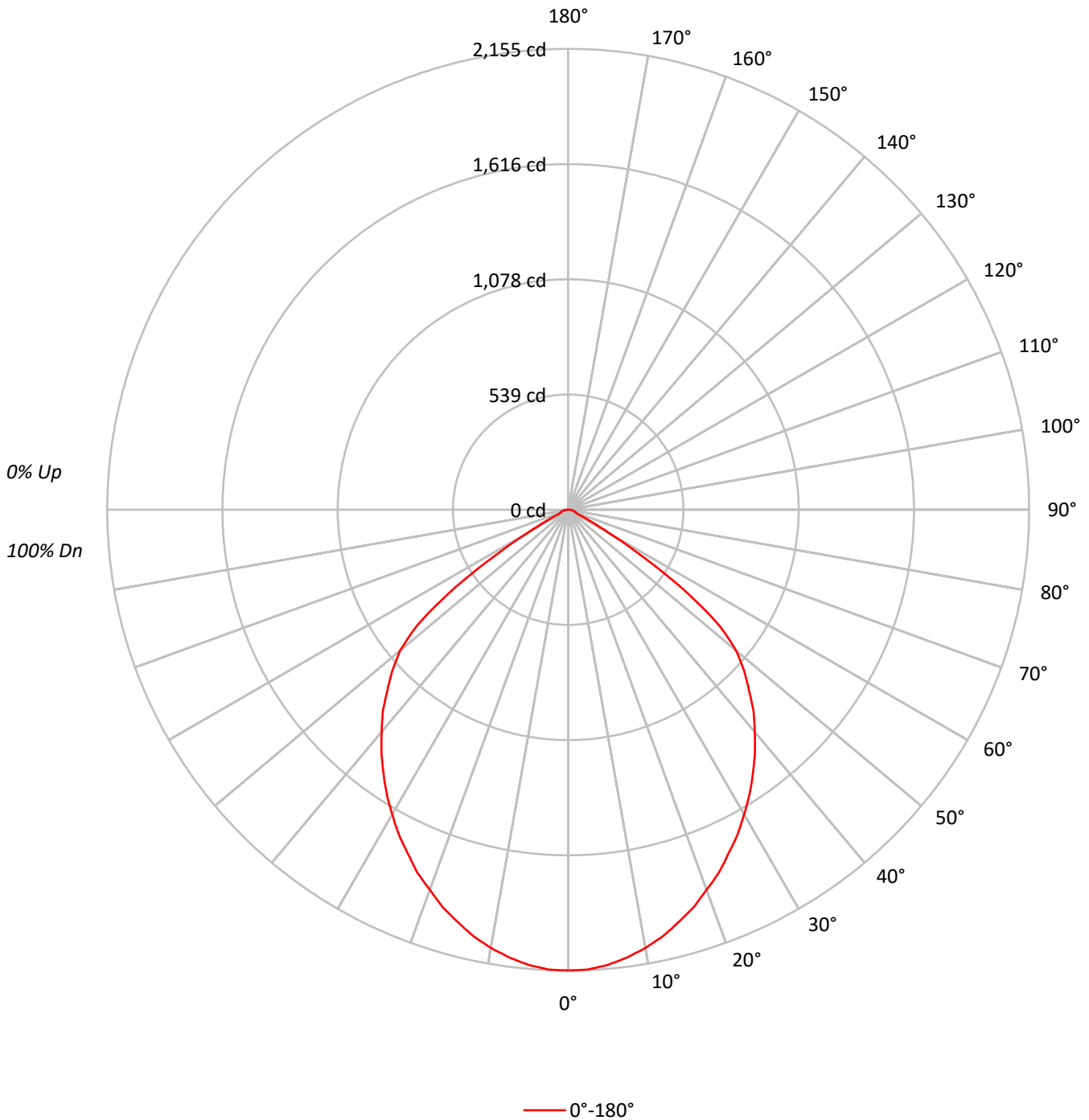
Lumens per Lamp: N/A
Luminaire Lumens: 4162.6 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	87	101	95	91	86	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	55
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49
7	72	60	52	46	70	59	52	46	57	51	46	56	50	46	55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36
10	59	47	39	35	58	46	39	35	45	39	34	44	39	34	44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	18285
5°	18200
10°	17929
15°	17532
20°	17076
25°	16608
30°	16122
35°	15599
40°	15026
45°	14353
50°	13541
55°	10137
60°	4002
65°	1092
70°	935
75°	1007
80°	1090
85°	1090

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14353 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.1	4.9
10°-20°	562.4	13.5
20°-30°	817.6	19.6
30°-40°	941.6	22.6
40°-50°	922.8	22.2
50°-60°	586.3	14.1
60°-70°	85.4	2.1
70°-80°	32.2	0.8
80°-90°	12.2	0.3
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°	1582.1	38.0
0°-40°	2523.7	60.6
0°-60°	4032.8	96.9
0°-90°	4162.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4162.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2155	
5°	2136	202
15°	1996	562
25°	1774	818
35°	1506	942
45°	1196	923
55°	685	586
65°	54	85
75°	31	32
85°	11	12
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2154.7
2.5°	2151.9
5°	2136.5
7.5°	2111.4
10°	2080.7
12.5°	2043.0
15°	1995.6
17.5°	1949.5
20°	1890.9
22.5°	1839.3
25°	1773.7
27.5°	1713.7
30°	1645.3
32.5°	1578.3
35°	1505.8
37.5°	1433.2
40°	1356.4
42.5°	1282.5
45°	1196.0
47.5°	1115.0
50°	1025.7
52.5°	893.1
55°	685.2
57.5°	436.8
60°	235.8
62.5°	118.6
65°	54.4
67.5°	39.1
70°	37.7
72.5°	34.9
75°	30.7
77.5°	26.5
80°	22.3
82.5°	16.7
85°	11.2
87.5°	5.6
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	17.40	18.81	17.77	19.12	19.43	17.40	18.81	17.77	19.12	19.43
	3H	17.33	18.57	17.71	18.90	19.26	17.33	18.57	17.71	18.90	19.26
	4H	17.31	18.46	17.71	18.81	19.19	17.31	18.46	17.71	18.81	19.19
	6H	17.29	18.34	17.70	18.71	19.10	17.29	18.34	17.70	18.71	19.10
	8H	17.27	18.27	17.70	18.66	19.06	17.27	18.27	17.70	18.66	19.06
	12H	17.25	18.21	17.69	18.59	19.02	17.25	18.21	17.69	18.59	19.02
4H	2H	17.24	18.39	17.65	18.74	19.12	17.24	18.39	17.65	18.74	19.12
	3H	17.21	18.13	17.62	18.53	18.94	17.21	18.13	17.62	18.53	18.94
	4H	17.19	18.02	17.63	18.43	18.88	17.19	18.02	17.63	18.43	18.88
	6H	17.21	17.91	17.67	18.36	18.83	17.21	17.91	17.67	18.36	18.83
	8H	17.19	17.86	17.66	18.30	18.77	17.19	17.86	17.66	18.30	18.77
	12H	17.19	17.78	17.67	18.26	18.73	17.19	17.78	17.67	18.26	18.73
8H	4H	17.10	17.76	17.57	18.21	18.68	17.10	17.76	17.57	18.21	18.68
	6H	17.12	17.67	17.62	18.17	18.65	17.12	17.67	17.62	18.17	18.65
	8H	17.12	17.62	17.64	18.14	18.63	17.12	17.62	17.64	18.14	18.63
	12H	17.14	17.59	17.65	18.08	18.65	17.14	17.59	17.65	18.08	18.65
12H	4H	17.06	17.65	17.55	18.13	18.61	17.06	17.65	17.55	18.13	18.61
	6H	17.07	17.57	17.59	18.09	18.58	17.07	17.57	17.59	18.09	18.58
	8H	17.10	17.55	17.62	18.05	18.61	17.10	17.55	17.62	18.05	18.61