

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: P865950

Luminaire Tested: PRLX-2001-M-927-75L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865950
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2001-M-927-75L-G-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

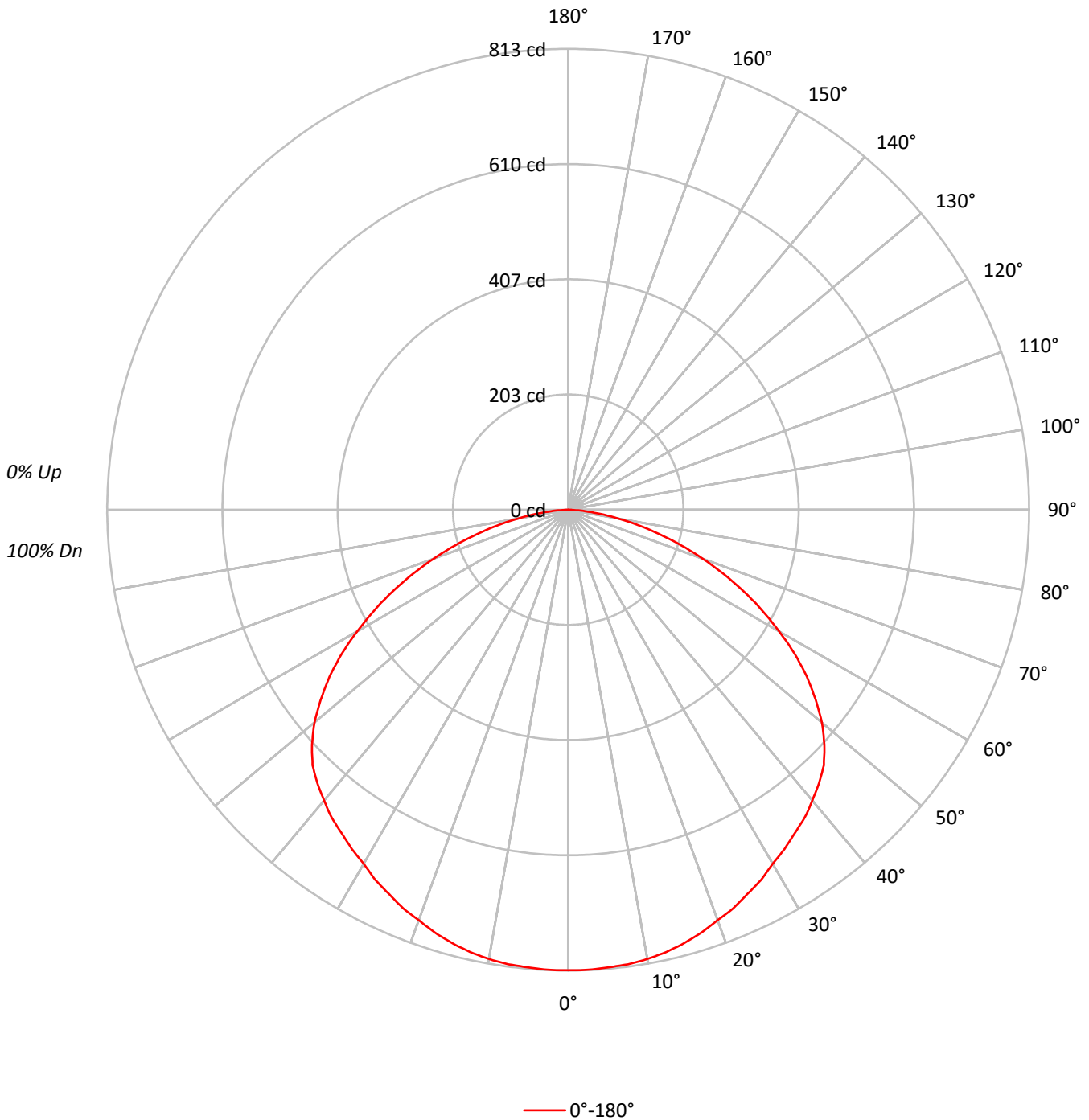
Lumens per Lamp: N/A
Luminaire Lumens: 2584.1 lumens
Efficiency: N/A
Efficacy: 37.1 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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

TEST NUMBER: P865950

CATALOG NUMBER: PRLX-2001-M-927-75L-G-U-S-X-X-GREY-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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	69	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6896
5°	6906
10°	6937
15°	6954
20°	6960
25°	7003
30°	7067
35°	7215
40°	7420
45°	7651
50°	7713
55°	7602
60°	7300
65°	6877
70°	6280
75°	5430
80°	4369
85°	2960

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 7713 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	3.0
10°-20°	223.5	8.6
20°-30°	345.5	13.4
30°-40°	437.1	16.9
40°-50°	489.3	18.9
50°-60°	457.3	17.7
60°-70°	338.2	13.1
70°-80°	177.5	6.9
80°-90°	38.5	1.5
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°	646.2	25.0
0°-40°	1083.3	41.9
0°-60°	2029.9	78.6
0°-90°	2584.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2584.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	813	
5°	811	77
15°	792	223
25°	748	346
35°	696	437
45°	638	489
55°	514	457
65°	342	338
75°	166	178
85°	30	39
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	812.6
2.5°	812.6
5°	810.7
7.5°	808.8
10°	805.0
12.5°	799.2
15°	791.6
17.5°	782.1
20°	770.7
22.5°	761.2
25°	747.9
27.5°	736.5
30°	721.2
32.5°	709.8
35°	696.5
37.5°	685.1
40°	669.8
42.5°	654.6
45°	637.5
47.5°	612.8
50°	584.2
52.5°	550.0
55°	513.8
57.5°	473.8
60°	430.1
62.5°	386.3
65°	342.5
67.5°	296.9
70°	253.1
72.5°	209.3
75°	165.6
77.5°	127.5
80°	89.4
82.5°	57.1
85°	30.4
87.5°	9.5
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	19.48	21.15	19.84	21.46	21.78	19.48	21.15	19.84	21.46	21.78
	3H	21.14	22.65	21.51	22.98	23.34	21.14	22.65	21.51	22.98	23.34
	4H	21.70	23.12	22.10	23.47	23.84	21.70	23.12	22.10	23.47	23.84
	6H	22.06	23.38	22.47	23.75	24.14	22.06	23.38	22.47	23.75	24.14
	8H	22.15	23.41	22.57	23.80	24.20	22.15	23.41	22.57	23.80	24.20
	12H	22.19	23.40	22.62	23.78	24.21	22.19	23.40	22.62	23.78	24.21
4H	2H	20.08	21.51	20.48	21.86	22.23	20.08	21.51	20.48	21.86	22.23
	3H	21.95	23.15	22.36	23.54	23.94	21.95	23.15	22.36	23.54	23.94
	4H	22.62	23.70	23.05	24.12	24.55	22.62	23.70	23.05	24.12	24.55
	6H	23.09	24.03	23.55	24.47	24.93	23.09	24.03	23.55	24.47	24.93
	8H	23.21	24.10	23.67	24.54	25.00	23.21	24.10	23.67	24.54	25.00
	12H	23.29	24.08	23.76	24.55	25.02	23.29	24.08	23.76	24.55	25.02
8H	4H	22.89	23.77	23.34	24.21	24.67	22.89	23.77	23.34	24.21	24.67
	6H	23.44	24.17	23.93	24.66	25.14	23.44	24.17	23.93	24.66	25.14
	8H	23.61	24.27	24.12	24.77	25.26	23.61	24.27	24.12	24.77	25.26
	12H	23.73	24.31	24.23	24.80	25.36	23.73	24.31	24.23	24.80	25.36
12H	4H	22.91	23.70	23.38	24.17	24.64	22.91	23.70	23.38	24.17	24.64
	6H	23.47	24.13	23.98	24.63	25.12	23.47	24.13	23.98	24.63	25.12
	8H	23.68	24.26	24.19	24.75	25.31	23.68	24.26	24.19	24.75	25.31