

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: P865926

Luminaire Tested: PRLX-2001-M-927-45L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865926
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: Prenalux
Catalog Number: PRLX-2001-M-927-45L-G-U-S-X-X-GREY-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

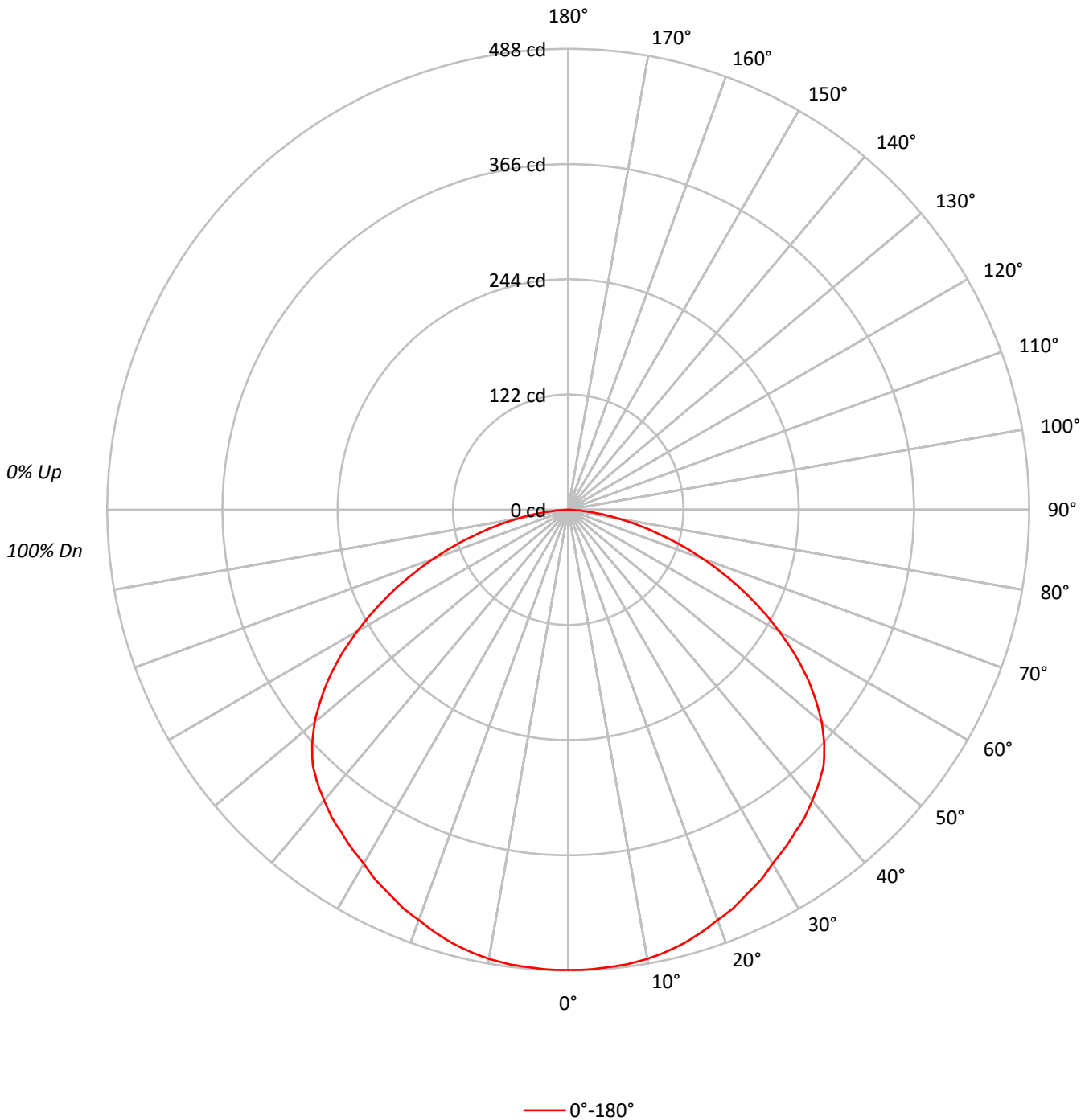
Lumens per Lamp: N/A
Luminaire Lumens: 1550.5 lumens
Efficiency: N/A
Efficacy: 40.0 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 38.8
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	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°	4137
5°	4143
10°	4162
15°	4173
20°	4176
25°	4201
30°	4240
35°	4329
40°	4452
45°	4590
50°	4627
55°	4561
60°	4379
65°	4126
70°	3769
75°	3256
80°	2624
85°	1782

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 4627 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.3	3.0
10°-20°	134.1	8.6
20°-30°	207.3	13.4
30°-40°	262.2	16.9
40°-50°	293.6	18.9
50°-60°	274.4	17.7
60°-70°	202.9	13.1
70°-80°	106.5	6.9
80°-90°	23.2	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°	387.7	25.0
0°-40°	650.0	41.9
0°-60°	1217.9	78.6
0°-90°	1550.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1550.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	488	
5°	486	46
15°	475	134
25°	449	207
35°	418	262
45°	382	294
55°	308	274
65°	206	203
75°	99	107
85°	18	23
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	487.5
2.5°	487.5
5°	486.4
7.5°	485.3
10°	483.0
12.5°	479.5
15°	475.0
17.5°	469.3
20°	462.4
22.5°	456.7
25°	448.7
27.5°	441.9
30°	432.7
32.5°	425.9
35°	417.9
37.5°	411.0
40°	401.9
42.5°	392.8
45°	382.5
47.5°	367.7
50°	350.5
52.5°	330.0
55°	308.3
57.5°	284.3
60°	258.0
62.5°	231.8
65°	205.5
67.5°	178.1
70°	151.9
72.5°	125.6
75°	99.3
77.5°	76.5
80°	53.7
82.5°	34.3
85°	18.3
87.5°	5.7
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	17.70	19.37	18.07	19.69	20.00	17.70	19.37	18.07	19.69	20.00
	3H	19.36	20.88	19.74	21.20	21.56	19.36	20.88	19.74	21.20	21.56
	4H	19.92	21.35	20.32	21.70	22.07	19.92	21.35	20.32	21.70	22.07
	6H	20.29	21.61	20.70	21.97	22.36	20.29	21.61	20.70	21.97	22.36
	8H	20.37	21.64	20.80	22.03	22.42	20.37	21.64	20.80	22.03	22.42
	12H	20.42	21.63	20.85	22.01	22.44	20.42	21.63	20.85	22.01	22.44
4H	2H	18.31	19.73	18.71	20.08	20.46	18.31	19.73	18.71	20.08	20.46
	3H	20.18	21.37	20.59	21.77	22.17	20.18	21.37	20.59	21.77	22.17
	4H	20.85	21.93	21.28	22.34	22.78	20.85	21.93	21.28	22.34	22.78
	6H	21.32	22.26	21.77	22.70	23.15	21.32	22.26	21.77	22.70	23.15
	8H	21.44	22.32	21.90	22.76	23.23	21.44	22.32	21.90	22.76	23.23
	12H	21.51	22.30	21.99	22.78	23.25	21.51	22.30	21.99	22.78	23.25
8H	4H	21.11	21.99	21.57	22.43	22.90	21.11	21.99	21.57	22.43	22.90
	6H	21.67	22.40	22.16	22.89	23.36	21.67	22.40	22.16	22.89	23.36
	8H	21.84	22.49	22.34	23.00	23.48	21.84	22.49	22.34	23.00	23.48
	12H	21.95	22.53	22.46	23.02	23.58	21.95	22.53	22.46	23.02	23.58
12H	4H	21.13	21.92	21.61	22.40	22.87	21.13	21.92	21.61	22.40	22.87
	6H	21.70	22.35	22.20	22.86	23.34	21.70	22.35	22.20	22.86	23.34
	8H	21.91	22.49	22.42	22.98	23.54	21.91	22.49	22.42	22.98	23.54