

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: P866126

Luminaire Tested: PRLX-2001-M-940-55L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866126
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-940-55L-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 6
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

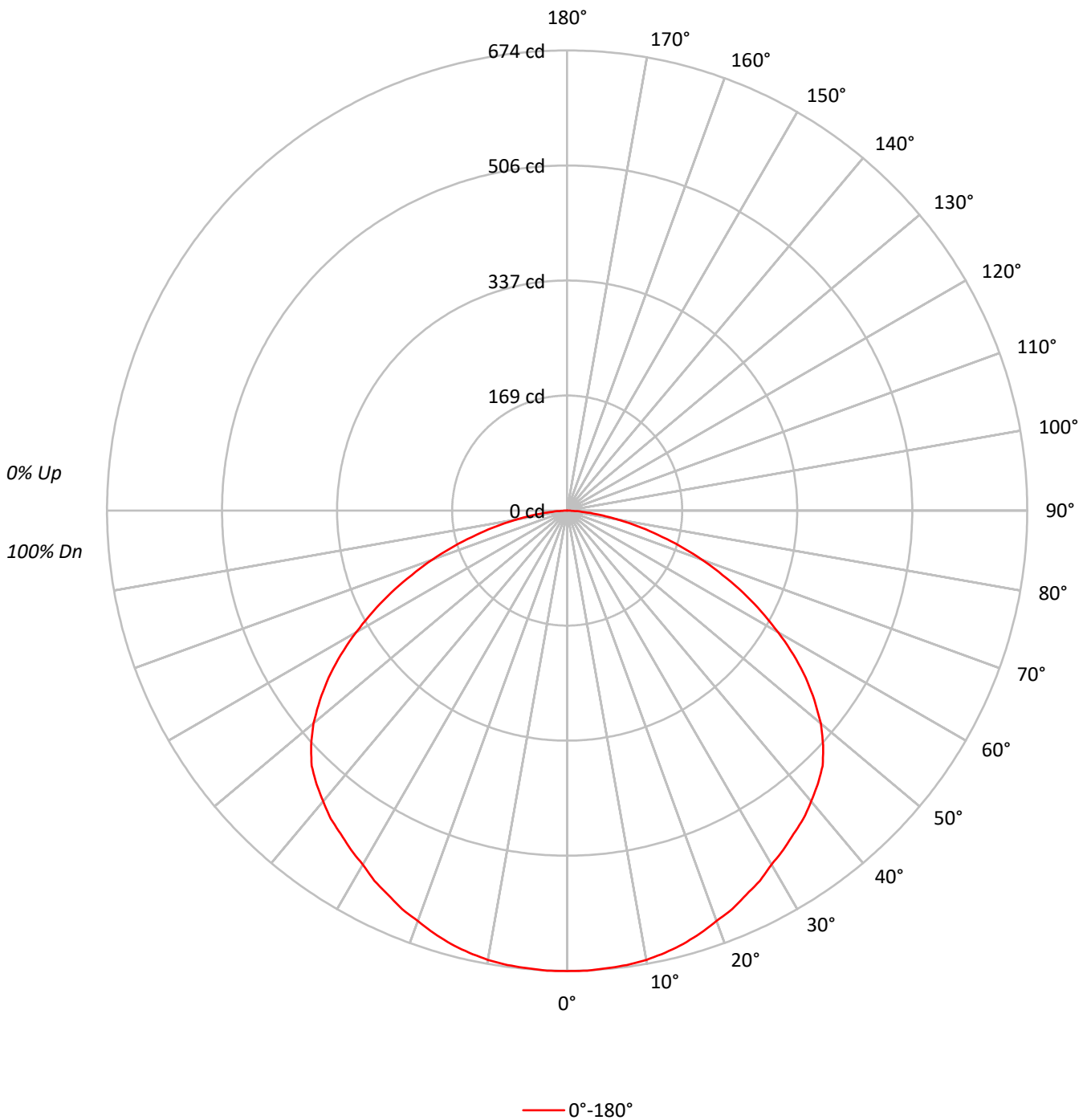
Lumens per Lamp: N/A
Luminaire Lumens: 2145.0 lumens
Efficiency: N/A
Efficacy: 44.4 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	5724
5°	5732
10°	5758
15°	5773
20°	5777
25°	5813
30°	5867
35°	5989
40°	6159
45°	6351
50°	6402
55°	6310
60°	6059
65°	5709
70°	5213
75°	4505
80°	3626
85°	2463

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 6402 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.1	3.0
10°-20°	185.5	8.6
20°-30°	286.8	13.4
30°-40°	362.8	16.9
40°-50°	406.2	18.9
50°-60°	379.6	17.7
60°-70°	280.7	13.1
70°-80°	147.4	6.9
80°-90°	32.0	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°	536.4	25.0
0°-40°	899.2	41.9
0°-60°	1684.9	78.6
0°-90°	2145.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2145.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	674	
5°	673	64
15°	657	186
25°	621	287
35°	578	363
45°	529	406
55°	426	380
65°	284	281
75°	137	147
85°	25	32
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	674.5
2.5°	674.5
5°	672.9
7.5°	671.3
10°	668.2
12.5°	663.4
15°	657.1
17.5°	649.2
20°	639.7
22.5°	631.8
25°	620.8
27.5°	611.3
30°	598.7
32.5°	589.2
35°	578.1
37.5°	568.7
40°	556.0
42.5°	543.4
45°	529.2
47.5°	508.6
50°	484.9
52.5°	456.5
55°	426.5
57.5°	393.3
60°	357.0
62.5°	320.7
65°	284.3
67.5°	246.4
70°	210.1
72.5°	173.8
75°	137.4
77.5°	105.8
80°	74.2
82.5°	47.4
85°	25.3
87.5°	7.9
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	18.83	20.50	19.19	20.82	21.13	18.83	20.50	19.19	20.82	21.13
	3H	20.49	22.00	20.87	22.33	22.69	20.49	22.00	20.87	22.33	22.69
	4H	21.05	22.48	21.45	22.82	23.20	21.05	22.48	21.45	22.82	23.20
	6H	21.41	22.73	21.82	23.10	23.49	21.41	22.73	21.82	23.10	23.49
	8H	21.50	22.76	21.93	23.15	23.55	21.50	22.76	21.93	23.15	23.55
	12H	21.55	22.76	21.97	23.14	23.57	21.55	22.76	21.97	23.14	23.57
4H	2H	19.44	20.86	19.83	21.21	21.58	19.44	20.86	19.83	21.21	21.58
	3H	21.31	22.50	21.71	22.90	23.30	21.31	22.50	21.71	22.90	23.30
	4H	21.98	23.06	22.41	23.47	23.90	21.98	23.06	22.41	23.47	23.90
	6H	22.44	23.39	22.90	23.83	24.28	22.44	23.39	22.90	23.83	24.28
	8H	22.57	23.45	23.03	23.89	24.35	22.57	23.45	23.03	23.89	24.35
	12H	22.64	23.43	23.12	23.91	24.37	22.64	23.43	23.12	23.91	24.37
8H	4H	22.24	23.12	22.70	23.56	24.03	22.24	23.12	22.70	23.56	24.03
	6H	22.79	23.53	23.29	24.01	24.49	22.79	23.53	23.29	24.01	24.49
	8H	22.96	23.62	23.47	24.12	24.61	22.96	23.62	23.47	24.12	24.61
	12H	23.08	23.66	23.58	24.15	24.71	23.08	23.66	23.58	24.15	24.71
12H	4H	22.26	23.05	22.74	23.53	23.99	22.26	23.05	22.74	23.53	23.99
	6H	22.82	23.48	23.33	23.99	24.47	22.82	23.48	23.33	23.99	24.47
	8H	23.04	23.62	23.54	24.11	24.67	23.04	23.62	23.54	24.11	24.67