

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: P866124

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866124
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-940-55L-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

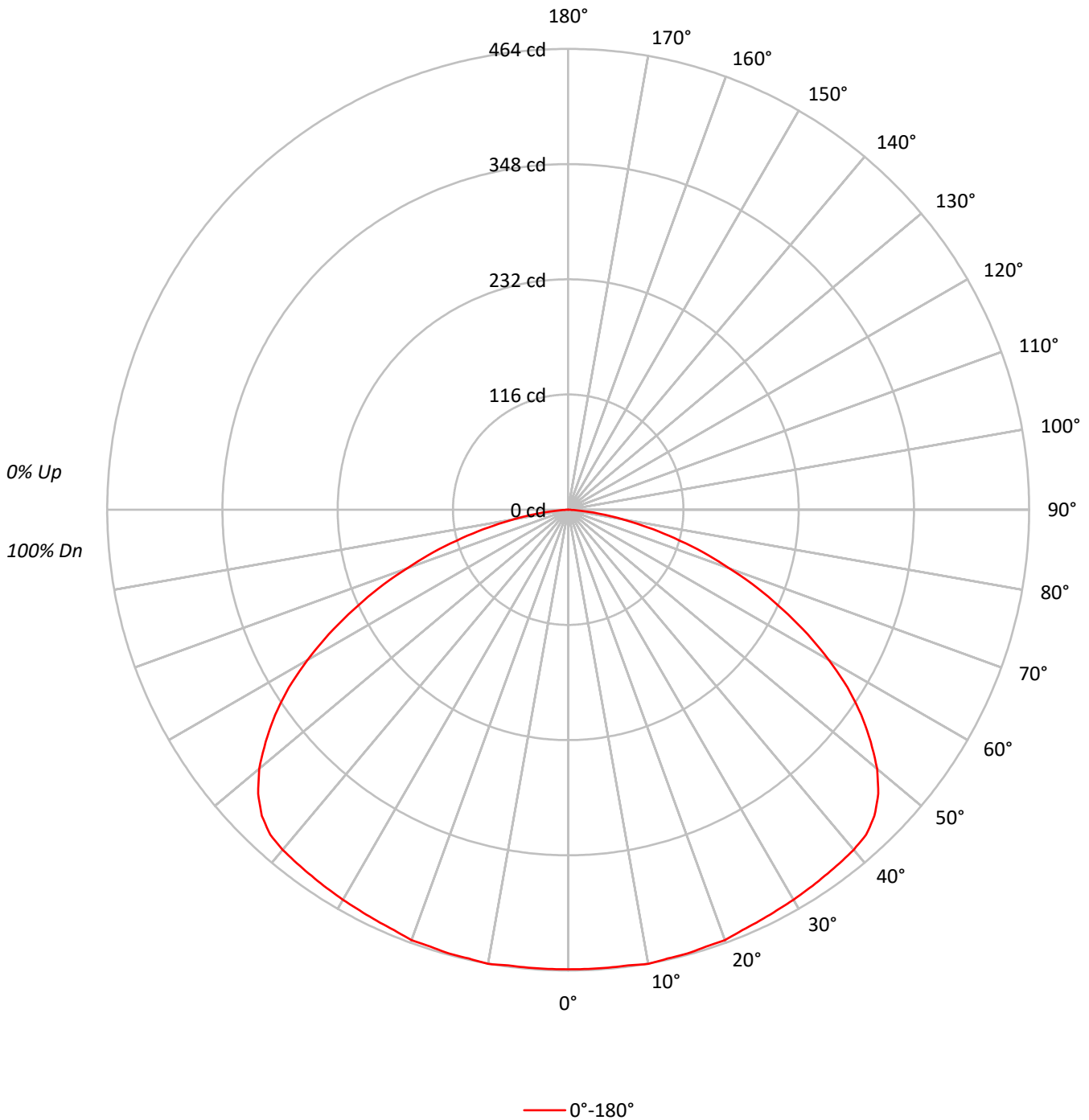
Lumens per Lamp: N/A
Luminaire Lumens: 1699.6 lumens
Efficiency: N/A
Efficacy: 35.2 lumens/watt
Spacing Criteria (0/90/45): 1.49 / 1.49 / 1.63
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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°	3927
5°	3942
10°	4002
15°	4066
20°	4165
25°	4274
30°	4443
35°	4664
40°	4952
45°	5232
50°	5360
55°	5329
60°	5148
65°	4789
70°	4273
75°	3626
80°	2702
85°	1383

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 5360 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.2	2.6
10°-20°	131.0	7.7
20°-30°	211.3	12.4
30°-40°	282.7	16.6
40°-50°	334.5	19.7
50°-60°	320.3	18.8
60°-70°	236.1	13.9
70°-80°	118.2	7.0
80°-90°	21.3	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°	386.5	22.7
0°-40°	669.3	39.4
0°-60°	1324.0	77.9
0°-90°	1699.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1699.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	463	
5°	463	44
15°	463	131
25°	456	211
35°	450	283
45°	436	334
55°	360	320
65°	238	236
75°	111	118
85°	14	21
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	462.8
2.5°	462.8
5°	462.8
7.5°	462.8
10°	464.4
12.5°	462.8
15°	462.8
17.5°	461.2
20°	461.2
22.5°	458.1
25°	456.5
27.5°	454.9
30°	453.4
32.5°	451.8
35°	450.2
37.5°	448.6
40°	447.0
42.5°	443.9
45°	436.0
47.5°	423.3
50°	406.0
52.5°	383.8
55°	360.2
57.5°	333.3
60°	303.3
62.5°	271.7
65°	238.5
67.5°	206.9
70°	172.2
72.5°	142.2
75°	110.6
77.5°	82.1
80°	55.3
82.5°	33.2
85°	14.2
87.5°	3.2
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	18.45	20.15	18.82	20.47	20.78	18.45	20.15	18.82	20.47	20.78
	3H	20.07	21.60	20.44	21.93	22.29	20.07	21.60	20.44	21.93	22.29
	4H	20.59	22.04	20.98	22.38	22.76	20.59	22.04	20.98	22.38	22.76
	6H	20.89	22.23	21.30	22.59	22.98	20.89	22.23	21.30	22.59	22.98
	8H	20.95	22.23	21.37	22.62	23.02	20.95	22.23	21.37	22.62	23.02
	12H	20.97	22.20	21.39	22.58	23.01	20.97	22.20	21.39	22.58	23.01
4H	2H	19.05	20.50	19.45	20.85	21.22	19.05	20.50	19.45	20.85	21.22
	3H	20.86	22.08	21.27	22.47	22.87	20.86	22.08	21.27	22.47	22.87
	4H	21.49	22.59	21.92	23.00	23.43	21.49	22.59	21.92	23.00	23.43
	6H	21.88	22.84	22.34	23.28	23.73	21.88	22.84	22.34	23.28	23.73
	8H	21.97	22.87	22.43	23.31	23.77	21.97	22.87	22.43	23.31	23.77
	12H	22.01	22.81	22.49	23.29	23.75	22.01	22.81	22.49	23.29	23.75
8H	4H	21.73	22.62	22.19	23.06	23.53	21.73	22.62	22.19	23.06	23.53
	6H	22.19	22.94	22.69	23.42	23.90	22.19	22.94	22.69	23.42	23.90
	8H	22.32	22.98	22.82	23.49	23.97	22.32	22.98	22.82	23.49	23.97
	12H	22.38	22.97	22.88	23.46	24.02	22.38	22.97	22.88	23.46	24.02
12H	4H	21.74	22.55	22.22	23.02	23.49	21.74	22.55	22.22	23.02	23.49
	6H	22.21	22.88	22.72	23.38	23.87	22.21	22.88	22.72	23.38	23.87
	8H	22.37	22.96	22.88	23.45	24.01	22.37	22.96	22.88	23.45	24.01