

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: P866130

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866130
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-940-55L-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

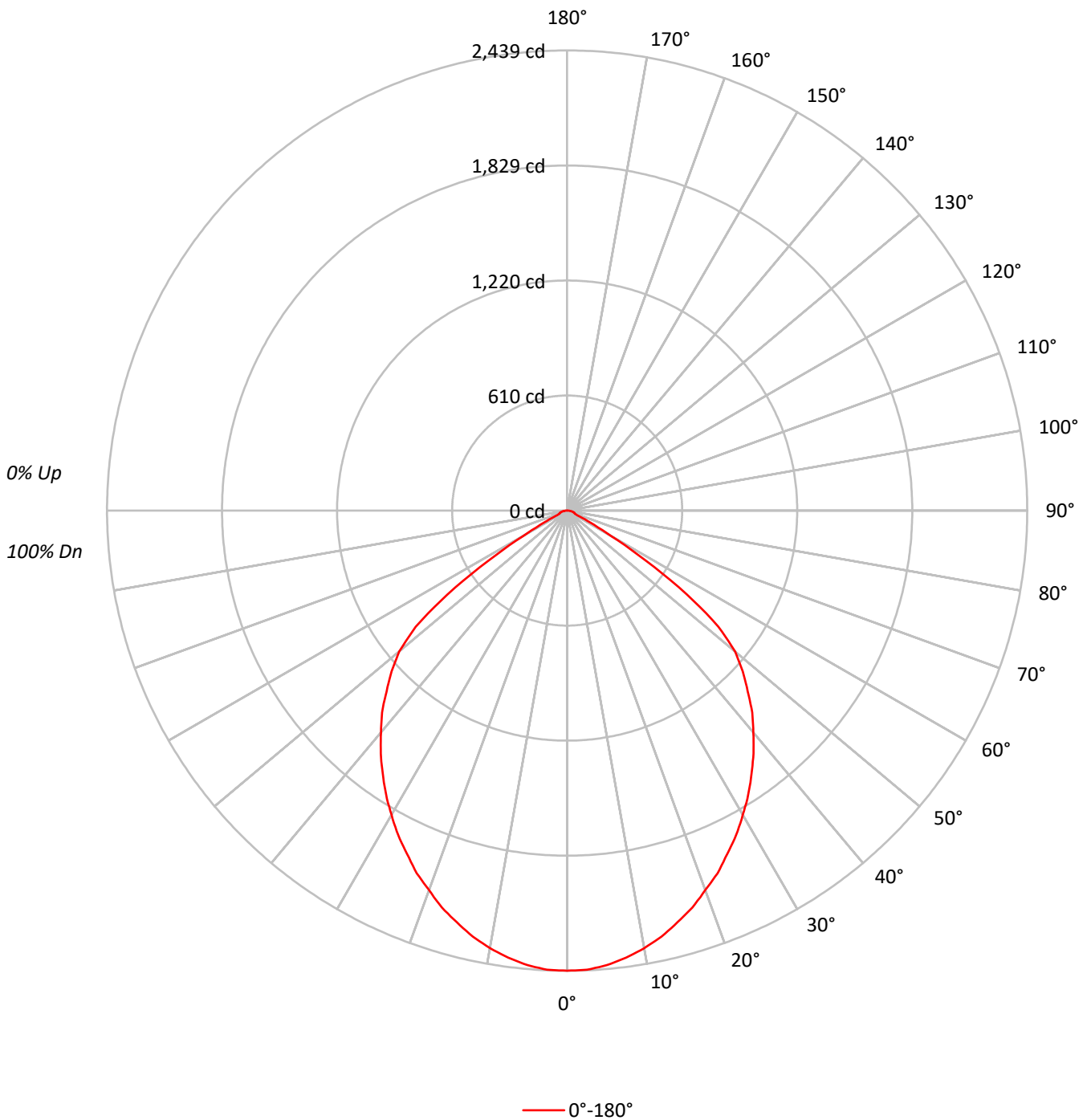
Lumens per Lamp: N/A
Luminaire Lumens: 4711.8 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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°	20697
5°	20601
10°	20295
15°	19845
20°	19329
25°	18799
30°	18249
35°	17657
40°	17009
45°	16246
50°	15327
55°	11475
60°	4532
65°	1237
70°	1057
75°	1141
80°	1236
85°	1227

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16246 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.8	4.9
10°-20°	636.6	13.5
20°-30°	925.5	19.6
30°-40°	1065.8	22.6
40°-50°	1044.6	22.2
50°-60°	663.6	14.1
60°-70°	96.7	2.1
70°-80°	36.5	0.8
80°-90°	13.8	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°	1790.8	38.0
0°-40°	2856.7	60.6
0°-60°	4564.9	96.9
0°-90°	4711.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4711.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2439	
5°	2418	229
15°	2259	637
25°	2008	925
35°	1704	1066
45°	1354	1045
55°	776	664
65°	62	97
75°	35	36
85°	13	14
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2438.9
2.5°	2435.8
5°	2418.4
7.5°	2390.0
10°	2355.2
12.5°	2312.6
15°	2258.9
17.5°	2206.7
20°	2140.4
22.5°	2081.9
25°	2007.7
27.5°	1939.8
30°	1862.4
32.5°	1786.5
35°	1704.4
37.5°	1622.3
40°	1535.4
42.5°	1451.7
45°	1353.7
47.5°	1262.1
50°	1161.0
52.5°	1011.0
55°	775.6
57.5°	494.4
60°	267.0
62.5°	134.3
65°	61.6
67.5°	44.2
70°	42.6
72.5°	39.5
75°	34.8
77.5°	30.0
80°	25.3
82.5°	19.0
85°	12.6
87.5°	6.3
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	17.83	19.24	18.20	19.55	19.86	17.83	19.24	18.20	19.55	19.86
	3H	17.77	19.00	18.14	19.33	19.69	17.77	19.00	18.14	19.33	19.69
	4H	17.74	18.89	18.14	19.24	19.62	17.74	18.89	18.14	19.24	19.62
	6H	17.72	18.77	18.13	19.14	19.53	17.72	18.77	18.13	19.14	19.53
	8H	17.70	18.70	18.13	19.09	19.49	17.70	18.70	18.13	19.09	19.49
	12H	17.68	18.64	18.12	19.02	19.45	17.68	18.64	18.12	19.02	19.45
4H	2H	17.67	18.82	18.08	19.17	19.55	17.67	18.82	18.08	19.17	19.55
	3H	17.64	18.56	18.05	18.96	19.37	17.64	18.56	18.05	18.96	19.37
	4H	17.62	18.45	18.06	18.86	19.31	17.62	18.45	18.06	18.86	19.31
	6H	17.64	18.34	18.10	18.79	19.26	17.64	18.34	18.10	18.79	19.26
	8H	17.63	18.29	18.09	18.73	19.20	17.63	18.29	18.09	18.73	19.20
	12H	17.62	18.21	18.10	18.69	19.16	17.62	18.21	18.10	18.69	19.16
8H	4H	17.53	18.19	18.00	18.64	19.11	17.53	18.19	18.00	18.64	19.11
	6H	17.55	18.10	18.05	18.60	19.08	17.55	18.10	18.05	18.60	19.08
	8H	17.55	18.05	18.07	18.57	19.06	17.55	18.05	18.07	18.57	19.06
	12H	17.57	18.02	18.08	18.51	19.08	17.57	18.02	18.08	18.51	19.08
12H	4H	17.49	18.08	17.98	18.57	19.04	17.49	18.08	17.98	18.57	19.04
	6H	17.51	18.00	18.03	18.52	19.01	17.51	18.00	18.03	18.52	19.01
	8H	17.53	17.98	18.05	18.48	19.05	17.53	17.98	18.05	18.48	19.05