

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: P866129

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866129
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-47)
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-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

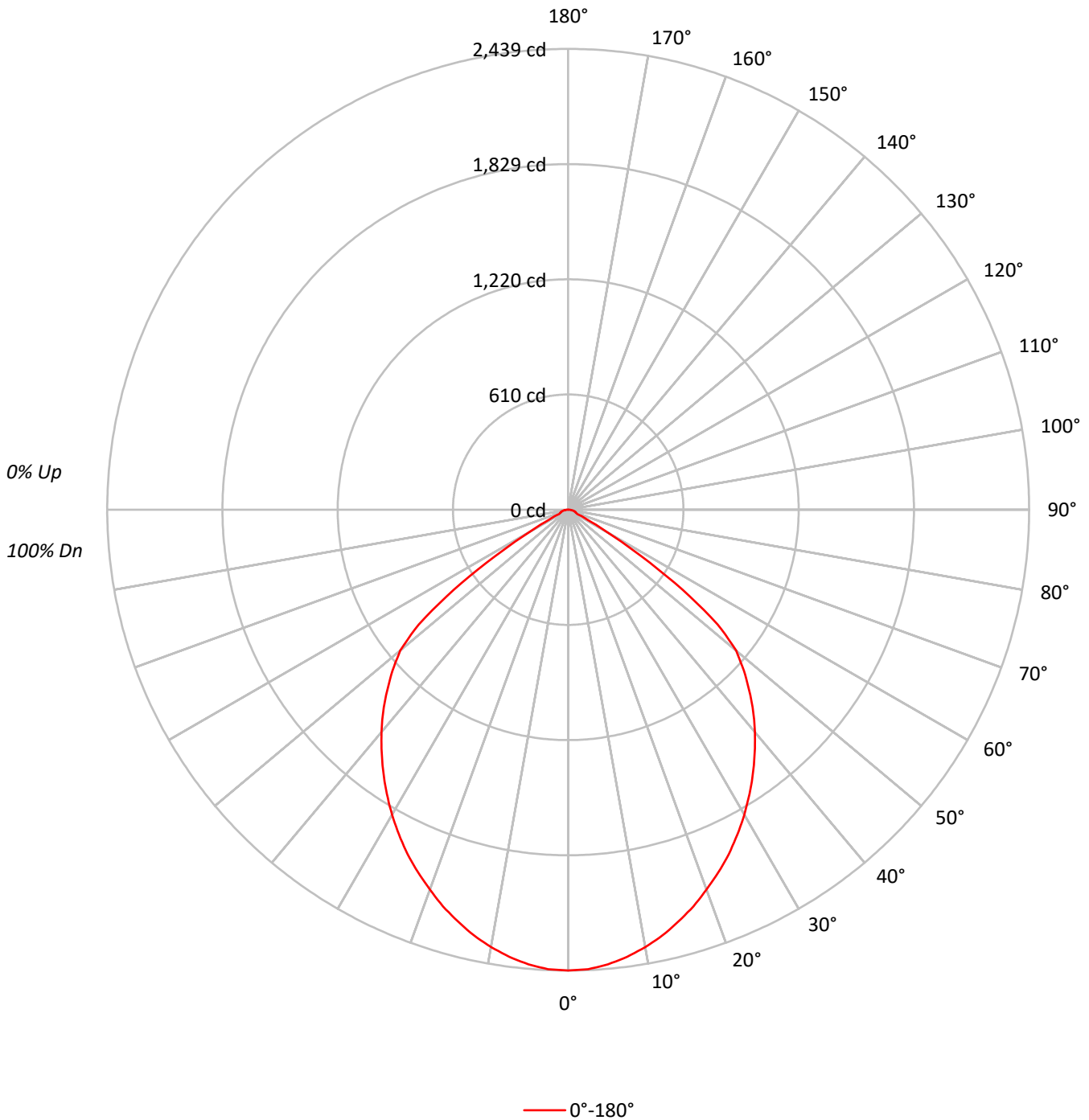
Lumens per Lamp: N/A
Luminaire Lumens: 4677.2 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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: 0.333 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	92	90
2	104	97	92	88	101	96	91	87	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	72	70
4	89	79	72	66	87	78	71	66	76	70	65		74	68	64		71	67	64	62
5	83	72	64	59	81	71	64	58	69	63	58		67	61	57		65	60	57	55
6	77	65	58	52	75	65	57	52	63	56	51		61	56	51		60	55	51	49
7	72	60	52	47	70	59	52	47	58	51	46		56	50	46		55	50	46	44
8	67	55	47	42	66	54	47	42	53	46	42		52	46	42		51	45	41	40
9	63	51	43	38	62	50	43	38	49	42	38		48	42	38		47	42	38	36
10	59	47	40	35	58	46	39	35	45	39	35		45	39	35		44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	20697
5°	20574
10°	20254
15°	19817
20°	19315
25°	18829
30°	18264
35°	17657
40°	17026
45°	16265
50°	15306
55°	10938
60°	4075
65°	1078
70°	1057
75°	1141
80°	1236
85°	1227

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16265 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.5	4.9
10°-20°	635.5	13.6
20°-30°	925.2	19.8
30°-40°	1065.6	22.8
40°-50°	1043.9	22.3
50°-60°	641.0	13.7
60°-70°	87.2	1.9
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°	1789.1	38.3
0°-40°	2854.7	61.0
0°-60°	4539.7	97.1
0°-90°	4677.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4677.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2439	
5°	2415	228
15°	2256	635
25°	2011	925
35°	1704	1066
45°	1355	1044
55°	739	641
65°	54	87
75°	35	36
85°	13	14
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2438.9
2.5°	2434.2
5°	2415.2
7.5°	2386.8
10°	2350.5
12.5°	2307.8
15°	2255.7
17.5°	2202.0
20°	2138.8
22.5°	2077.2
25°	2010.9
27.5°	1938.2
30°	1863.9
32.5°	1785.0
35°	1704.4
37.5°	1620.7
40°	1537.0
42.5°	1448.5
45°	1355.3
47.5°	1260.5
50°	1159.4
52.5°	996.7
55°	739.3
57.5°	459.7
60°	240.1
62.5°	116.9
65°	53.7
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	17.35	18.75	17.72	19.06	19.38	17.35	18.75	17.72	19.06	19.38
	3H	17.29	18.52	17.67	18.85	19.21	17.29	18.52	17.67	18.85	19.21
	4H	17.27	18.41	17.67	18.76	19.15	17.27	18.41	17.67	18.76	19.15
	6H	17.26	18.30	17.67	18.67	19.07	17.26	18.30	17.67	18.67	19.07
	8H	17.25	18.24	17.68	18.63	19.03	17.25	18.24	17.68	18.63	19.03
	12H	17.23	18.18	17.66	18.56	18.99	17.23	18.18	17.66	18.56	18.99
4H	2H	17.19	18.33	17.59	18.68	19.06	17.19	18.33	17.59	18.68	19.06
	3H	17.16	18.08	17.57	18.48	18.89	17.16	18.08	17.57	18.48	18.89
	4H	17.16	17.98	17.60	18.40	18.84	17.16	17.98	17.60	18.40	18.84
	6H	17.18	17.89	17.65	18.34	18.80	17.18	17.89	17.65	18.34	18.80
	8H	17.18	17.84	17.65	18.29	18.76	17.18	17.84	17.65	18.29	18.76
	12H	17.18	17.76	17.66	18.25	18.72	17.18	17.76	17.66	18.25	18.72
8H	4H	17.07	17.73	17.54	18.18	18.65	17.07	17.73	17.54	18.18	18.65
	6H	17.11	17.66	17.61	18.15	18.63	17.11	17.66	17.61	18.15	18.63
	8H	17.12	17.62	17.64	18.13	18.62	17.12	17.62	17.64	18.13	18.62
	12H	17.15	17.59	17.66	18.09	18.65	17.15	17.59	17.66	18.09	18.65
12H	4H	17.04	17.62	17.52	18.10	18.58	17.04	17.62	17.52	18.10	18.58
	6H	17.07	17.56	17.59	18.08	18.57	17.07	17.56	17.59	18.08	18.57
	8H	17.11	17.55	17.62	18.05	18.62	17.11	17.55	17.62	18.05	18.62