

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: P867125

Luminaire Tested: PRLX-2002-L-940-133L-L-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867125
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-81)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-L-940-133L-L-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

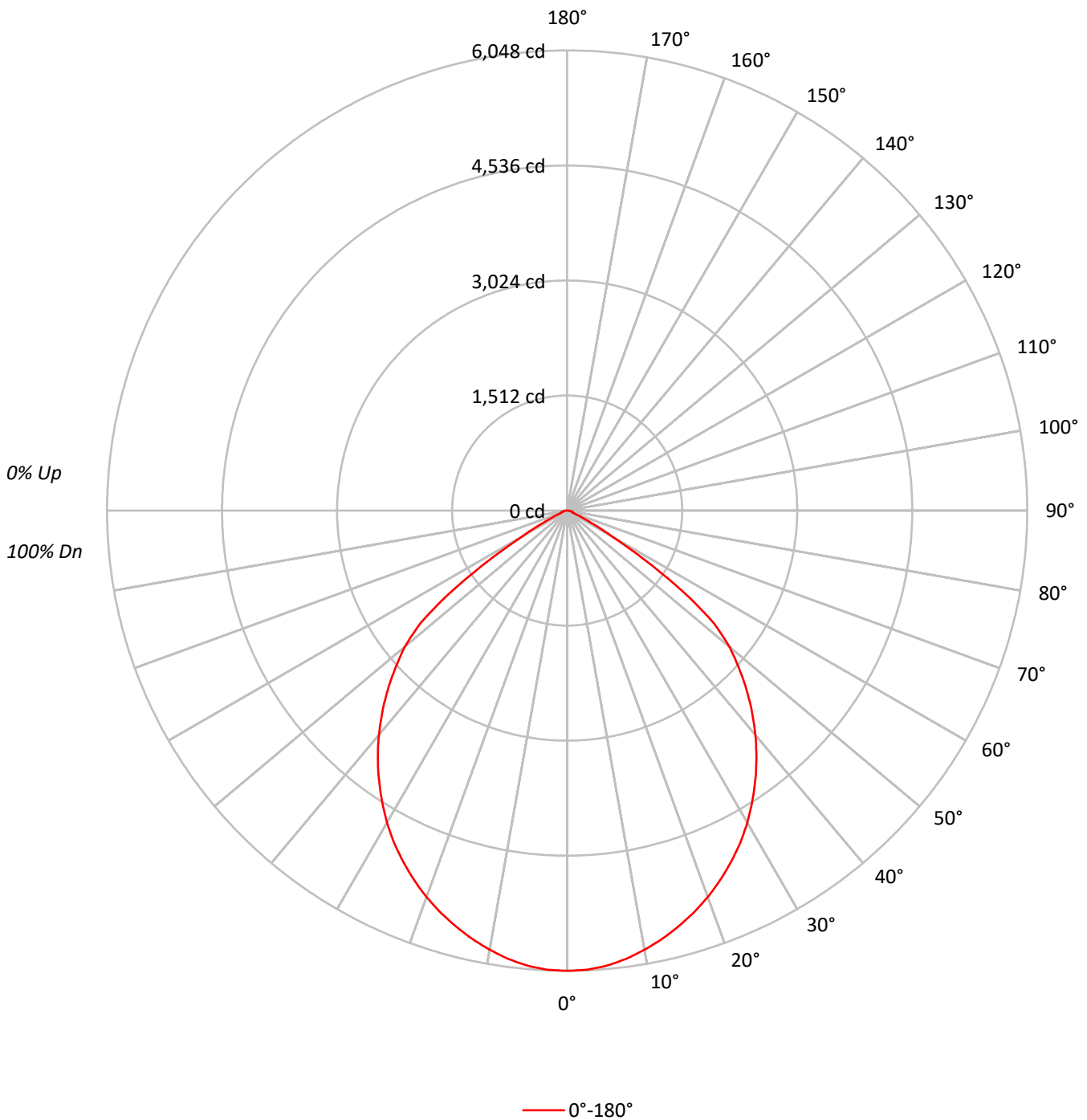
Lumens per Lamp: N/A
Luminaire Lumens: 11742.3 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 111.8
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	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	77	73	78	75	72	70
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	72	67	64	62
5	83	72	64	59	81	71	64	58	69	63	58	67	62	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	43	38	48	42	38	47	42	38	36
10	59	47	40	35	58	46	39	35	46	39	35	45	39	35	44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	29839
5°	29732
10°	29359
15°	28897
20°	28378
25°	27744
30°	26979
35°	25983
40°	24796
45°	23287
50°	21397
55°	16093
60°	6775
65°	2498
70°	1148
75°	1256
80°	1449
85°	1693

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23287 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	568.5	4.8
10°-20°	1594.6	13.6
20°-30°	2345.7	20.0
30°-40°	2694.1	22.9
40°-50°	2566.4	21.9
50°-60°	1607.3	13.7
60°-70°	266.0	2.3
70°-80°	69.5	0.6
80°-90°	30.3	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°	4508.8	38.4
0°-40°	7202.9	61.3
0°-60°	11376.5	96.9
0°-90°	11742.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11742.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6048	
5°	6003	568
15°	5657	1595
25°	5096	2346
35°	4314	2694
45°	3337	2566
55°	1871	1607
65°	214	266
75°	66	69
85°	30	30
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	6047.9
2.5°	6041.7
5°	6003.2
7.5°	5942.2
10°	5860.1
12.5°	5766.8
15°	5657.4
17.5°	5537.9
20°	5404.8
22.5°	5256.8
25°	5096.3
27.5°	4925.9
30°	4735.6
32.5°	4529.1
35°	4313.9
37.5°	4087.5
40°	3849.9
42.5°	3597.4
45°	3337.4
47.5°	3060.0
50°	2787.6
52.5°	2434.4
55°	1870.9
57.5°	1209.1
60°	686.6
62.5°	389.3
65°	214.0
67.5°	100.8
70°	79.6
72.5°	73.4
75°	65.9
77.5°	58.5
80°	51.0
82.5°	41.0
85°	29.9
87.5°	14.9
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	19.02	20.41	19.38	20.72	21.04	19.02	20.41	19.38	20.72	21.04
	3H	18.93	20.16	19.31	20.49	20.85	18.93	20.16	19.31	20.49	20.85
	4H	18.89	20.03	19.29	20.38	20.76	18.89	20.03	19.29	20.38	20.76
	6H	18.85	19.89	19.26	20.26	20.66	18.85	19.89	19.26	20.26	20.66
	8H	18.83	19.82	19.26	20.21	20.61	18.83	19.82	19.26	20.21	20.61
	12H	18.81	19.75	19.24	20.13	20.56	18.81	19.75	19.24	20.13	20.56
4H	2H	18.89	20.02	19.29	20.37	20.76	18.89	20.02	19.29	20.37	20.76
	3H	18.82	19.74	19.23	20.14	20.54	18.82	19.74	19.23	20.14	20.54
	4H	18.78	19.59	19.21	20.01	20.45	18.78	19.59	19.21	20.01	20.45
	6H	18.76	19.46	19.22	19.91	20.37	18.76	19.46	19.22	19.91	20.37
	8H	18.74	19.39	19.20	19.84	20.31	18.74	19.39	19.20	19.84	20.31
	12H	18.72	19.31	19.21	19.79	20.26	18.72	19.31	19.21	19.79	20.26
8H	4H	18.67	19.33	19.14	19.77	20.24	18.67	19.33	19.14	19.77	20.24
	6H	18.65	19.19	19.15	19.69	20.17	18.65	19.19	19.15	19.69	20.17
	8H	18.63	19.13	19.15	19.64	20.13	18.63	19.13	19.15	19.64	20.13
	12H	18.64	19.08	19.16	19.58	20.15	18.64	19.08	19.16	19.58	20.15
12H	4H	18.63	19.21	19.11	19.69	20.17	18.63	19.21	19.11	19.69	20.17
	6H	18.60	19.09	19.12	19.60	20.09	18.60	19.09	19.12	19.60	20.09
	8H	18.61	19.05	19.12	19.54	20.11	18.61	19.05	19.12	19.54	20.11