

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: P866837

Luminaire Tested: PRLX-2001-L-935-67L-L-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866837
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-77)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-935-67L-L-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

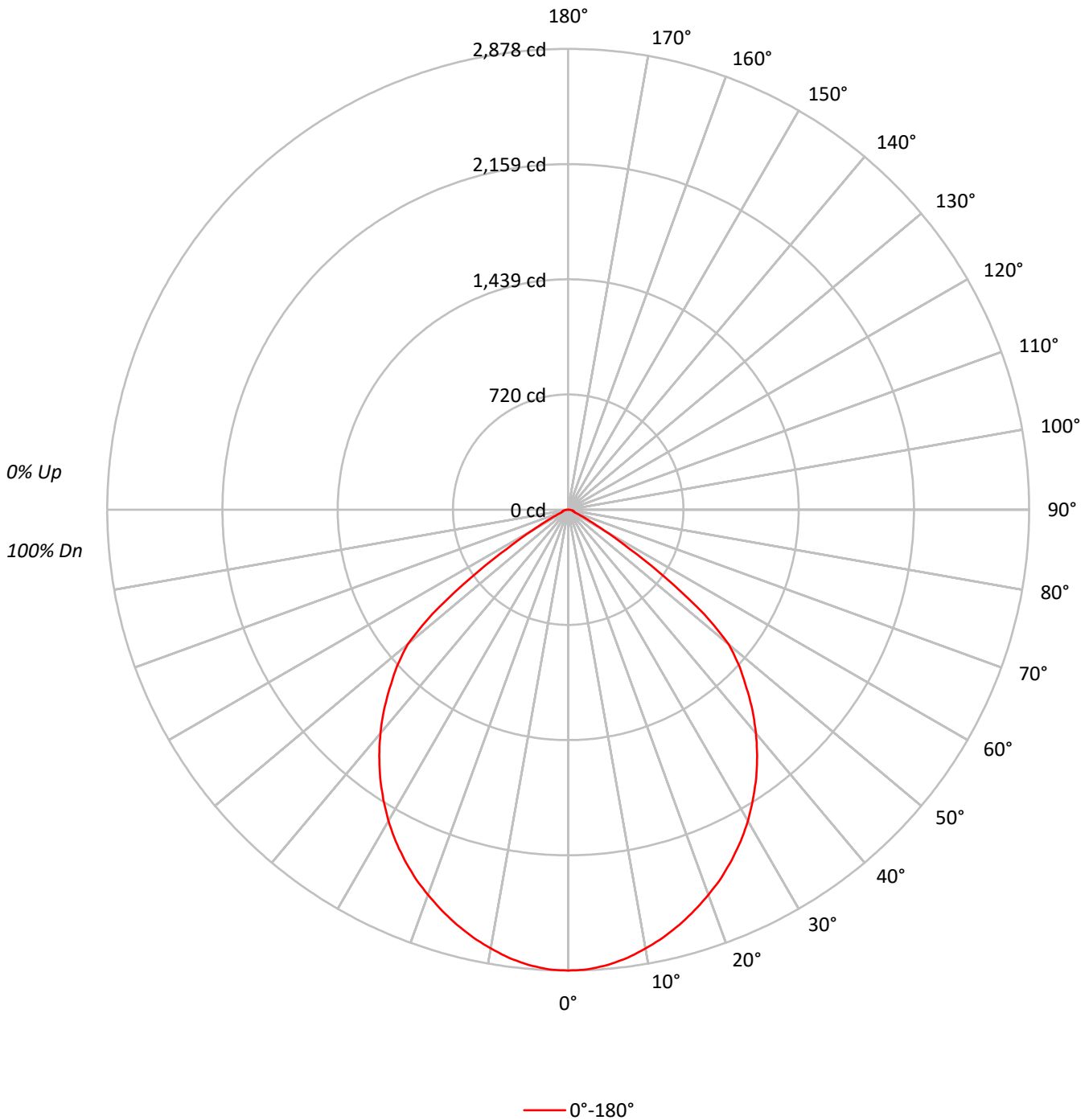
Lumens per Lamp: N/A
Luminaire Lumens: 5455.7 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.26
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 50.4
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	101	102	100	97	98	96	94	95	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	87	84	81	80
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	63	57	52	62	56	52	60	55	51	50
7	72	60	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	45
8	68	56	48	43	66	55	48	43	54	47	42	52	47	42	51	46	42	40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	15735
5°	15660
10°	15446
15°	15186
20°	14895
25°	14565
30°	14163
35°	13652
40°	13013
45°	12176
50°	11130
55°	7063
60°	2801
65°	1072
70°	647
75°	708
80°	797
85°	884

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12176 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.1	5.0
10°-20°	756.1	13.9
20°-30°	1111.4	20.4
30°-40°	1277.1	23.4
40°-50°	1213.3	22.2
50°-60°	672.7	12.3
60°-70°	105.0	1.9
70°-80°	35.2	0.6
80°-90°	14.7	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°	2137.7	39.2
0°-40°	3414.8	62.6
0°-60°	5300.8	97.2
0°-90°	5455.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5455.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2878	
5°	2854	270
15°	2683	756
25°	2415	1111
35°	2046	1277
45°	1575	1213
55°	741	673
65°	83	105
75°	34	35
85°	14	15
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2878.2
2.5°	2873.5
5°	2853.6
7.5°	2823.6
10°	2782.5
12.5°	2737.2
15°	2683.1
17.5°	2623.8
20°	2560.3
22.5°	2491.6
25°	2414.6
27.5°	2333.5
30°	2243.6
32.5°	2147.2
35°	2045.6
37.5°	1938.0
40°	1823.4
42.5°	1704.1
45°	1574.9
47.5°	1449.7
50°	1308.7
52.5°	1068.3
55°	741.0
57.5°	450.7
60°	256.2
62.5°	152.2
65°	82.9
67.5°	45.2
70°	40.5
72.5°	37.0
75°	33.5
77.5°	30.0
80°	25.3
82.5°	20.0
85°	14.1
87.5°	7.1
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	15.20	16.58	15.57	16.89	17.21	15.20	16.58	15.57	16.89	17.21
	3H	15.14	16.35	15.52	16.68	17.04	15.14	16.35	15.52	16.68	17.04
	4H	15.12	16.24	15.52	16.59	16.97	15.12	16.24	15.52	16.59	16.97
	6H	15.10	16.13	15.52	16.50	16.90	15.10	16.13	15.52	16.50	16.90
	8H	15.09	16.07	15.52	16.46	16.86	15.09	16.07	15.52	16.46	16.86
	12H	15.08	16.01	15.51	16.40	16.83	15.08	16.01	15.51	16.40	16.83
4H	2H	15.07	16.20	15.47	16.55	16.93	15.07	16.20	15.47	16.55	16.93
	3H	15.04	15.94	15.45	16.35	16.75	15.04	15.94	15.45	16.35	16.75
	4H	15.03	15.84	15.47	16.26	16.70	15.03	15.84	15.47	16.26	16.70
	6H	15.06	15.75	15.52	16.20	16.66	15.06	15.75	15.52	16.20	16.66
	8H	15.06	15.70	15.53	16.15	16.62	15.06	15.70	15.53	16.15	16.62
	12H	15.06	15.64	15.55	16.12	16.59	15.06	15.64	15.55	16.12	16.59
8H	4H	14.94	15.59	15.41	16.04	16.51	14.94	15.59	15.41	16.04	16.51
	6H	14.98	15.52	15.48	16.01	16.49	14.98	15.52	15.48	16.01	16.49
	8H	15.00	15.49	15.52	16.00	16.49	15.00	15.49	15.52	16.00	16.49
	12H	15.04	15.48	15.55	15.97	16.54	15.04	15.48	15.55	15.97	16.54
12H	4H	14.90	15.48	15.39	15.96	16.44	14.90	15.48	15.39	15.96	16.44
	6H	14.94	15.42	15.46	15.94	16.43	14.94	15.42	15.46	15.94	16.43
	8H	14.99	15.43	15.50	15.92	16.49	14.99	15.43	15.50	15.92	16.49