

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: P866829

Luminaire Tested: PRLX-2001-L-935-48L-L-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866829
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-935-48L-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 3
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

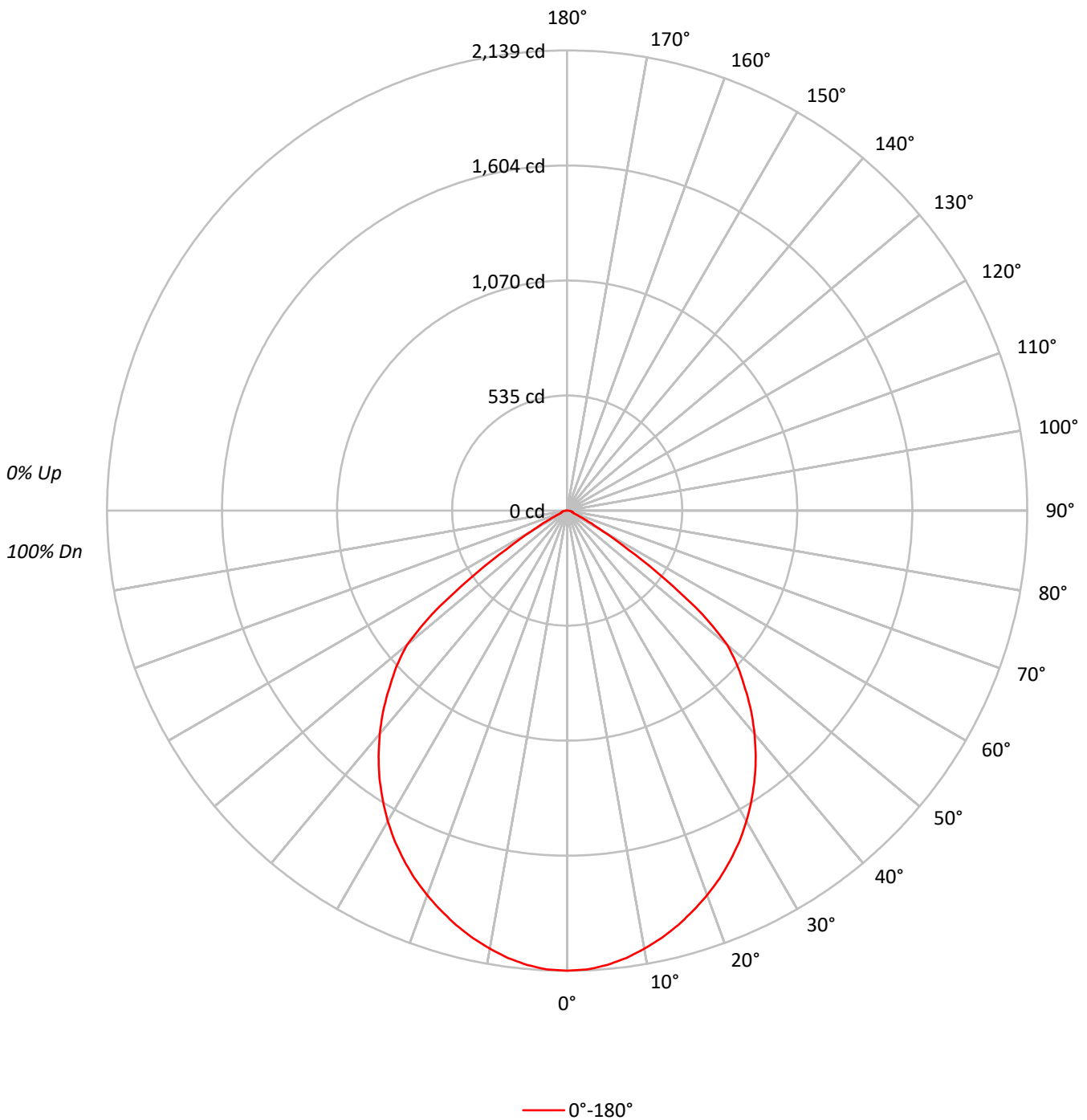
Lumens per Lamp: N/A
Luminaire Lumens: 4054.1 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.26
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	108	105	102	109	106	103	101	102	100	97	98	96	94	95	93	92	90				90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	87	84	81	80				80
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70				70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62				62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55				55
6	78	66	58	53	76	65	58	53	63	57	52	62	56	52	60	55	51	50				50
7	72	60	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	45				45
8	68	56	48	43	66	55	48	43	54	47	42	52	47	42	51	46	42	40				40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37				37
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33				33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	11693
5°	11636
10°	11478
15°	11284
20°	11068
25°	10823
30°	10524
35°	10144
40°	9670
45°	9048
50°	8271
55°	5248
60°	2082
65°	797
70°	481
75°	526
80°	592
85°	659

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9048 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.7	5.0
10°-20°	561.9	13.9
20°-30°	825.9	20.4
30°-40°	949.0	23.4
40°-50°	901.6	22.2
50°-60°	499.9	12.3
60°-70°	78.0	1.9
70°-80°	26.2	0.6
80°-90°	10.9	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°	1588.5	39.2
0°-40°	2537.5	62.6
0°-60°	3939.0	97.2
0°-90°	4054.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4054.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2139	
5°	2120	201
15°	1994	562
25°	1794	826
35°	1520	949
45°	1170	902
55°	551	500
65°	62	78
75°	25	26
85°	10	11
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2138.8
2.5°	2135.3
5°	2120.4
7.5°	2098.2
10°	2067.6
12.5°	2034.0
15°	1993.8
17.5°	1949.7
20°	1902.5
22.5°	1851.5
25°	1794.3
27.5°	1734.0
30°	1667.2
32.5°	1595.6
35°	1520.0
37.5°	1440.1
40°	1355.0
42.5°	1266.3
45°	1170.3
47.5°	1077.2
50°	972.5
52.5°	793.9
55°	550.6
57.5°	334.9
60°	190.4
62.5°	113.1
65°	61.6
67.5°	33.6
70°	30.1
72.5°	27.5
75°	24.9
77.5°	22.3
80°	18.8
82.5°	14.8
85°	10.5
87.5°	5.2
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	14.17	15.55	14.53	15.86	16.17	14.17	15.55	14.53	15.86	16.17
	3H	14.11	15.32	14.49	15.65	16.01	14.11	15.32	14.49	15.65	16.01
	4H	14.08	15.21	14.49	15.56	15.94	14.08	15.21	14.49	15.56	15.94
	6H	14.07	15.10	14.49	15.47	15.86	14.07	15.10	14.49	15.47	15.86
	8H	14.06	15.04	14.49	15.43	15.83	14.06	15.04	14.49	15.43	15.83
	12H	14.05	14.98	14.48	15.36	15.79	14.05	14.98	14.48	15.36	15.79
4H	2H	14.04	15.16	14.44	15.51	15.90	14.04	15.16	14.44	15.51	15.90
	3H	14.01	14.91	14.42	15.32	15.72	14.01	14.91	14.42	15.32	15.72
	4H	14.00	14.80	14.43	15.22	15.67	14.00	14.80	14.43	15.22	15.67
	6H	14.03	14.72	14.49	15.16	15.63	14.03	14.72	14.49	15.16	15.63
	8H	14.02	14.67	14.49	15.12	15.59	14.02	14.67	14.49	15.12	15.59
	12H	14.03	14.61	14.52	15.09	15.56	14.03	14.61	14.52	15.09	15.56
8H	4H	13.91	14.56	14.38	15.00	15.48	13.91	14.56	14.38	15.00	15.48
	6H	13.95	14.49	14.45	14.98	15.46	13.95	14.49	14.45	14.98	15.46
	8H	13.97	14.46	14.49	14.97	15.46	13.97	14.46	14.49	14.97	15.46
	12H	14.01	14.44	14.52	14.94	15.51	14.01	14.44	14.52	14.94	15.51
12H	4H	13.87	14.45	14.36	14.93	15.40	13.87	14.45	14.36	14.93	15.40
	6H	13.91	14.39	14.43	14.91	15.40	13.91	14.39	14.43	14.91	15.40
	8H	13.96	14.39	14.47	14.89	15.46	13.96	14.39	14.47	14.89	15.46