

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: P866833

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866833
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-65)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-935-48L-G-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

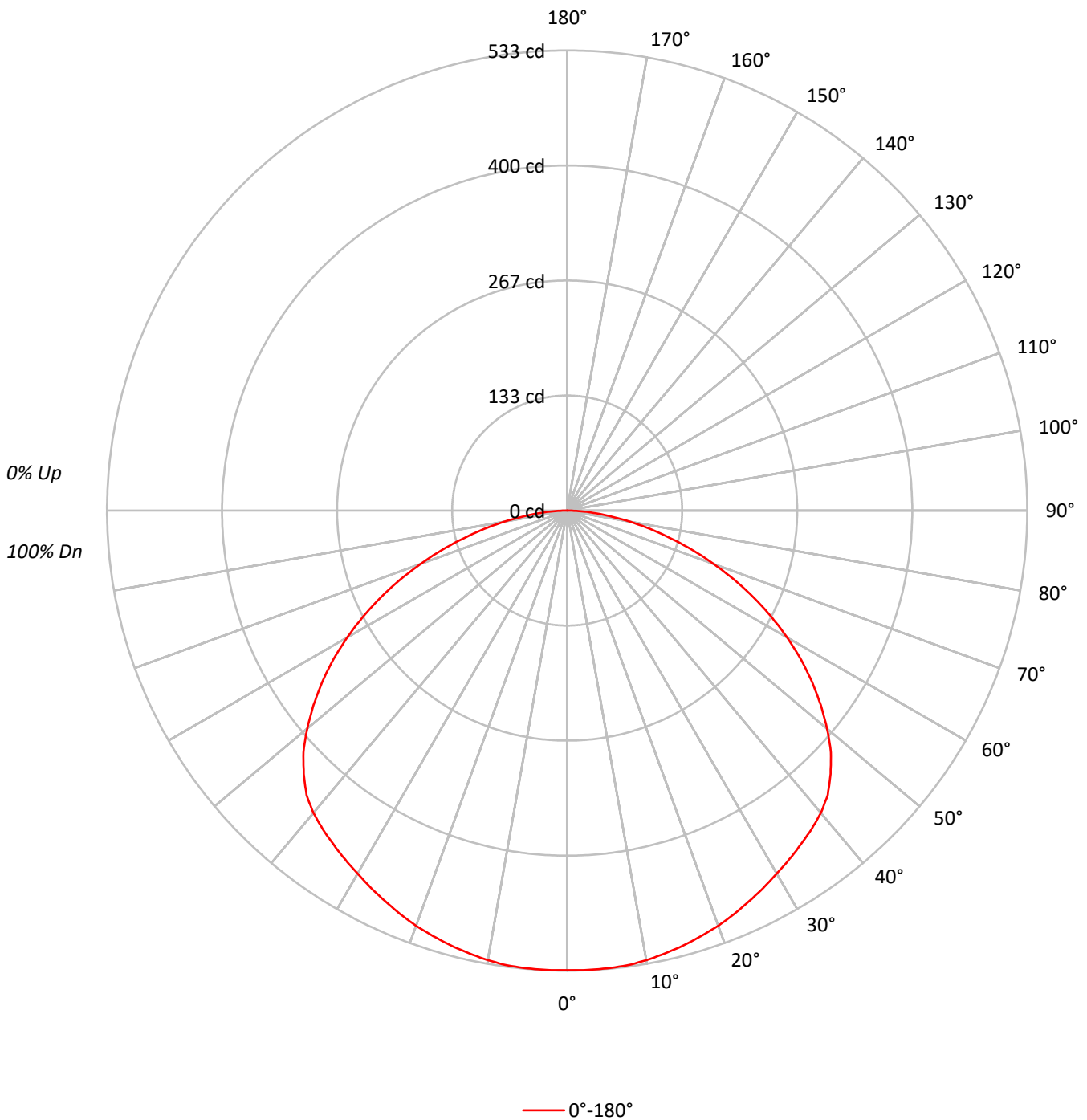
Lumens per Lamp: N/A
Luminaire Lumens: 1769.0 lumens
Efficiency: N/A
Efficacy: 47.2 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.51
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
Input Voltage (V): 120
Input Current (Ain): 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	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	82	76	95	88	81	76	84	79	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61		71	65	60		68	63	59	57
4	81	69	60	53	79	67	59	52	65	58	52		63	56	51		60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	38		50	43	38		49	43	38	36
7	63	50	40	34	62	49	40	34	47	39	34		46	39	34		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40	34	30	28
9	55	41	33	27	53	41	33	27	39	32	27		38	32	27		37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2910
5°	2921
10°	2935
15°	2951
20°	2978
25°	3011
30°	3065
35°	3150
40°	3263
45°	3335
50°	3342
55°	3301
60°	3218
65°	3084
70°	2882
75°	2619
80°	2323
85°	1888

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 3353 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.7	2.9
10°-20°	147.4	8.3
20°-30°	230.6	13.0
30°-40°	296.1	16.7
40°-50°	331.9	18.8
50°-60°	309.0	17.5
60°-70°	235.5	13.3
70°-80°	132.3	7.5
80°-90°	35.4	2.0
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°	428.7	24.2
0°-40°	724.8	41.0
0°-60°	1365.7	77.2
0°-90°	1769.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1769.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	532	
5°	532	51
15°	521	147
25°	499	231
35°	472	296
45°	431	332
55°	346	309
65°	238	236
75°	124	132
85°	30	35
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	532.3
2.5°	532.7
5°	532.3
7.5°	531.4
10°	528.8
12.5°	525.3
15°	521.4
17.5°	516.6
20°	511.8
22.5°	505.7
25°	499.1
27.5°	492.6
30°	485.6
32.5°	479.0
35°	472.0
37.5°	465.0
40°	457.2
42.5°	446.7
45°	431.4
47.5°	414.4
50°	393.0
52.5°	370.3
55°	346.3
57.5°	321.4
60°	294.3
62.5°	266.8
65°	238.4
67.5°	209.6
70°	180.3
72.5°	152.4
75°	124.0
77.5°	98.2
80°	73.8
82.5°	50.2
85°	30.1
87.5°	13.1
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	16.55	18.24	16.92	18.55	18.87	16.55	18.24	16.92	18.55	18.87
	3H	18.34	19.87	18.71	20.19	20.55	18.34	19.87	18.71	20.19	20.55
	4H	18.98	20.42	19.38	20.77	21.14	18.98	20.42	19.38	20.77	21.14
	6H	19.45	20.79	19.86	21.15	21.54	19.45	20.79	19.86	21.15	21.54
	8H	19.59	20.87	20.02	21.26	21.66	19.59	20.87	20.02	21.26	21.66
	12H	19.68	20.91	20.11	21.29	21.72	19.68	20.91	20.11	21.29	21.72
4H	2H	17.20	18.64	17.59	18.98	19.36	17.20	18.64	17.59	18.98	19.36
	3H	19.19	20.40	19.60	20.80	21.20	19.19	20.40	19.60	20.80	21.20
	4H	19.96	21.06	20.39	21.47	21.90	19.96	21.06	20.39	21.47	21.90
	6H	20.55	21.51	21.00	21.95	22.41	20.55	21.51	21.00	21.95	22.41
	8H	20.74	21.64	21.20	22.08	22.54	20.74	21.64	21.20	22.08	22.54
	12H	20.87	21.68	21.35	22.16	22.63	20.87	21.68	21.35	22.16	22.63
8H	4H	20.27	21.17	20.73	21.61	22.07	20.27	21.17	20.73	21.61	22.07
	6H	20.97	21.72	21.47	22.21	22.68	20.97	21.72	21.47	22.21	22.68
	8H	21.23	21.90	21.74	22.41	22.89	21.23	21.90	21.74	22.41	22.89
	12H	21.43	22.02	21.93	22.51	23.07	21.43	22.02	21.93	22.51	23.07
12H	4H	20.30	21.11	20.78	21.59	22.05	20.30	21.11	20.78	21.59	22.05
	6H	21.03	21.70	21.53	22.21	22.69	21.03	21.70	21.53	22.21	22.69
	8H	21.34	21.93	21.84	22.42	22.98	21.34	21.93	21.84	22.42	22.98