

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: P866808

Luminaire Tested: PRLX-2001-L-935-133L-G-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866808
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-67)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-935-133L-G-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

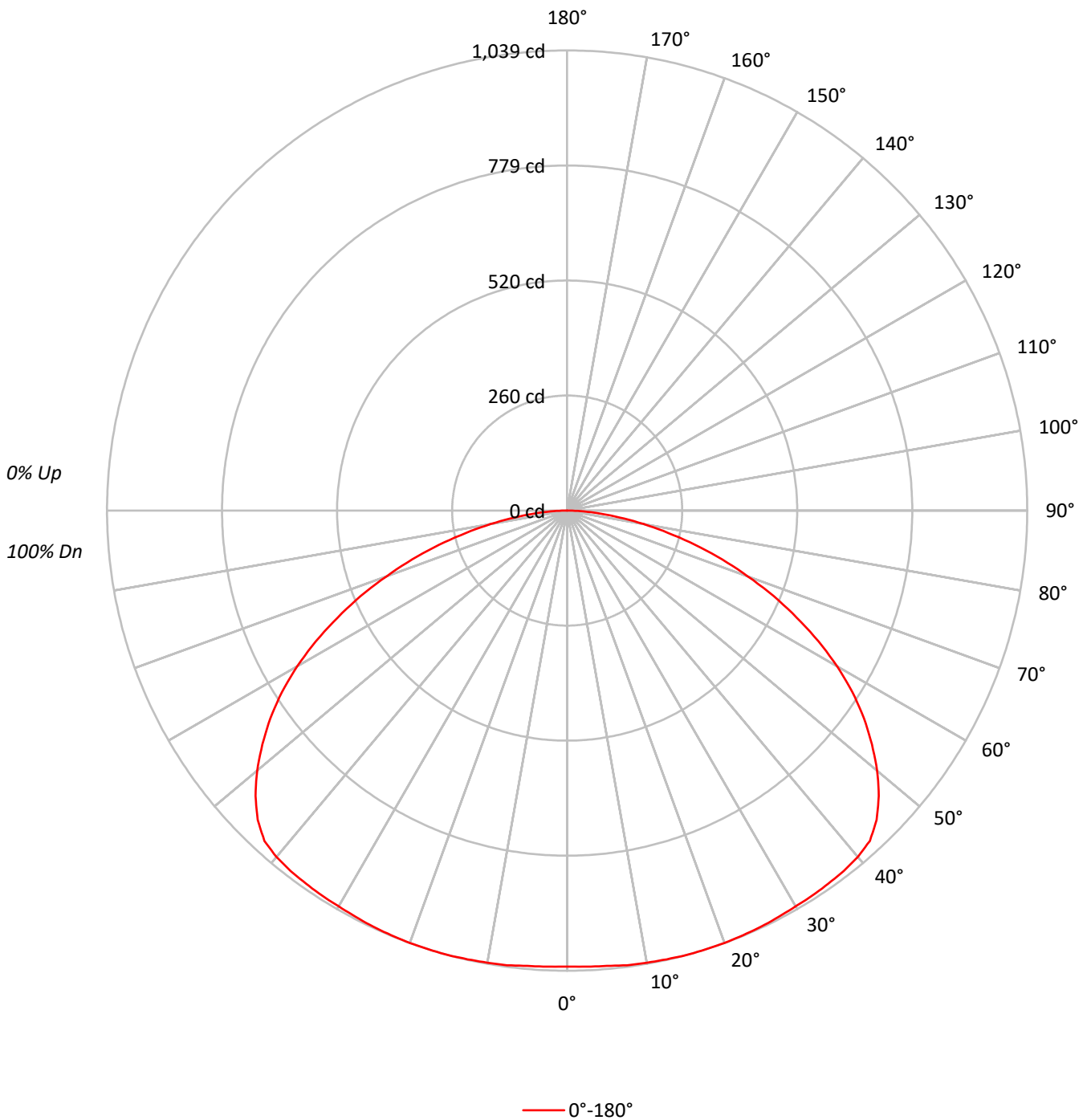
Lumens per Lamp: N/A
Luminaire Lumens: 3971.4 lumens
Efficiency: N/A
Efficacy: 35.5 lumens/watt
Spacing Criteria (0/90/45): 1.53 / 1.53 / 1.64
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

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	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67
3	88	77	68	62	86	75	67	61	72	66	60	70	64	59	67	62	58	55
4	80	68	58	51	78	66	58	51	64	56	50	61	55	49	59	53	49	46
5	73	60	50	43	71	59	50	43	57	49	43	55	48	42	53	47	42	39
6	68	54	44	37	66	53	44	37	51	43	37	49	42	36	47	41	36	34
7	62	48	39	33	61	47	39	32	46	38	32	44	37	32	43	37	32	30
8	58	44	35	29	56	43	35	29	42	34	28	40	33	28	39	33	28	26
9	54	40	31	26	52	39	31	25	38	31	25	37	30	25	36	30	25	23
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5628
5°	5663
10°	5754
15°	5880
20°	6045
25°	6253
30°	6514
35°	6863
40°	7287
45°	7637
50°	7773
55°	7802
60°	7700
65°	7398
70°	6932
75°	6318
80°	5516
85°	4334

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 7802 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.7	2.5
10°-20°	294.4	7.4
20°-30°	479.4	12.1
30°-40°	645.6	16.3
40°-50°	758.0	19.1
50°-60°	729.1	18.4
60°-70°	565.5	14.2
70°-80°	317.4	8.0
80°-90°	83.1	2.1
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°	872.5	22.0
0°-40°	1518.1	38.2
0°-60°	3005.3	75.7
0°-90°	3971.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3971.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1030	
5°	1032	99
15°	1039	294
25°	1037	479
35°	1028	646
45°	988	758
55°	819	729
65°	572	566
75°	299	317
85°	69	83
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1029.5
2.5°	1030.7
5°	1031.9
7.5°	1035.4
10°	1036.6
12.5°	1037.8
15°	1039.0
17.5°	1039.0
20°	1039.0
22.5°	1037.8
25°	1036.6
27.5°	1034.2
30°	1031.9
32.5°	1030.7
35°	1028.3
37.5°	1025.9
40°	1021.1
42.5°	1011.6
45°	987.8
47.5°	954.4
50°	913.9
52.5°	867.4
55°	818.6
57.5°	763.8
60°	704.2
62.5°	639.8
65°	571.9
67.5°	505.2
70°	433.7
72.5°	367.0
75°	299.1
77.5°	233.5
80°	175.2
82.5°	119.2
85°	69.1
87.5°	29.8
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	19.72	21.44	20.08	21.75	22.07	19.72	21.44	20.08	21.75	22.07
	3H	21.54	23.10	21.92	23.43	23.79	21.54	23.10	21.92	23.43	23.79
	4H	22.20	23.67	22.60	24.02	24.39	22.20	23.67	22.60	24.02	24.39
	6H	22.66	24.03	23.07	24.39	24.78	22.66	24.03	23.07	24.39	24.78
	8H	22.80	24.11	23.23	24.50	24.90	22.80	24.11	23.23	24.50	24.90
	12H	22.89	24.15	23.32	24.53	24.96	22.89	24.15	23.32	24.53	24.96
4H	2H	20.38	21.85	20.77	22.20	22.57	20.38	21.85	20.77	22.20	22.57
	3H	22.41	23.65	22.82	24.05	24.45	22.41	23.65	22.82	24.05	24.45
	4H	23.19	24.32	23.62	24.73	25.16	23.19	24.32	23.62	24.73	25.16
	6H	23.78	24.76	24.23	25.20	25.65	23.78	24.76	24.23	25.20	25.65
	8H	23.96	24.89	24.42	25.33	25.79	23.96	24.89	24.42	25.33	25.79
	12H	24.09	24.93	24.57	25.40	25.87	24.09	24.93	24.57	25.40	25.87
8H	4H	23.51	24.43	23.96	24.87	25.33	23.51	24.43	23.96	24.87	25.33
	6H	24.20	24.97	24.69	25.46	25.93	24.20	24.97	24.69	25.46	25.93
	8H	24.46	25.15	24.96	25.65	26.13	24.46	25.15	24.96	25.65	26.13
	12H	24.65	25.26	25.15	25.75	26.31	24.65	25.26	25.15	25.75	26.31
12H	4H	23.54	24.37	24.02	24.85	25.31	23.54	24.37	24.02	24.85	25.31
	6H	24.26	24.95	24.76	25.45	25.94	24.26	24.95	24.76	25.45	25.94
	8H	24.56	25.18	25.07	25.66	26.22	24.56	25.18	25.07	25.66	26.22