

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: P866060

Luminaire Tested: PRLX-2001-M-935-55L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866060
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-37)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-935-55L-G-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

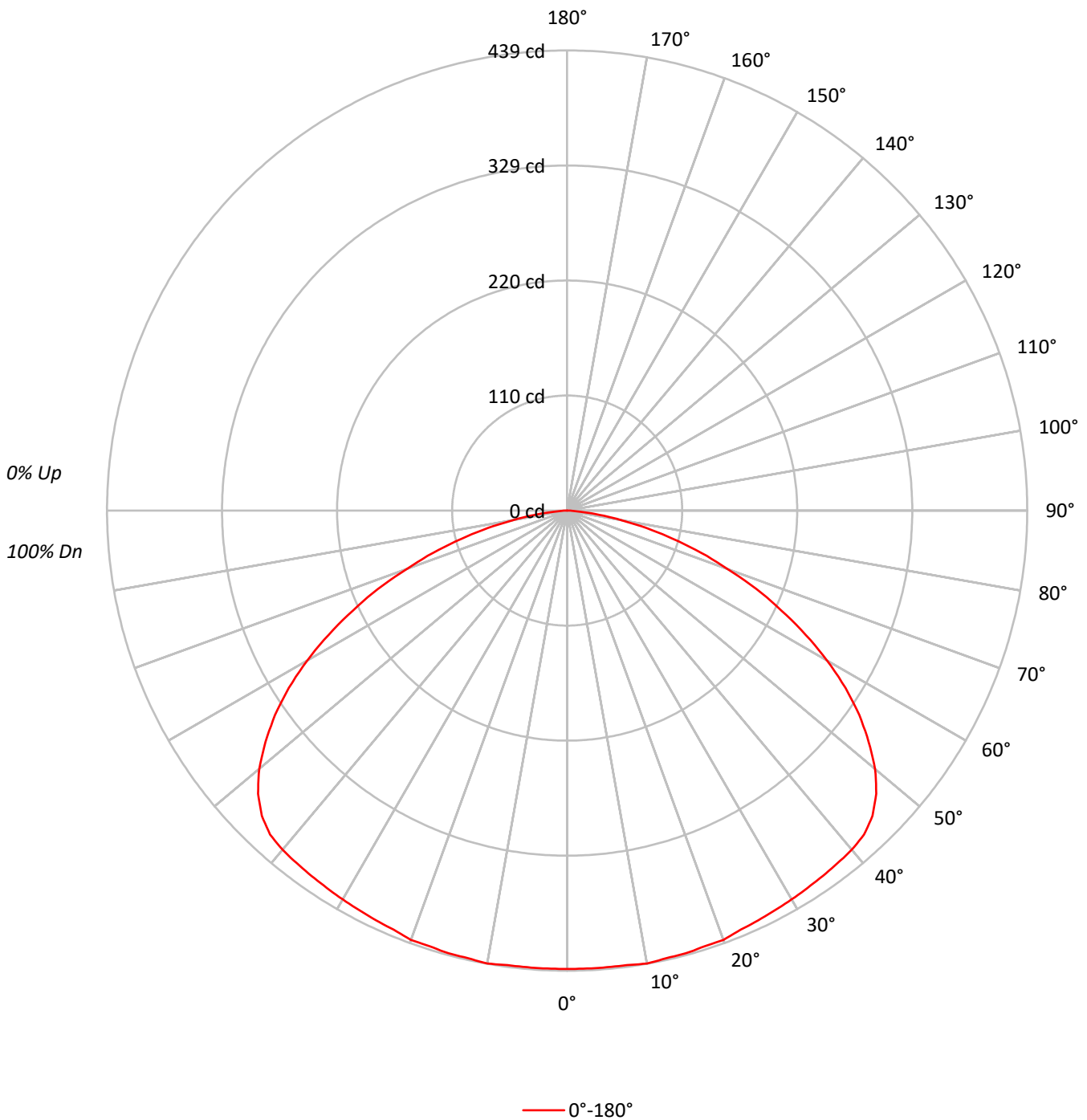
Lumens per Lamp: N/A
Luminaire Lumens: 1605.8 lumens
Efficiency: N/A
Efficacy: 33.2 lumens/watt
Spacing Criteria (0/90/45): 1.49 / 1.49 / 1.63
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 48.3
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

TEST NUMBER: P866060

CATALOG NUMBER: PRLX-2001-M-935-55L-G-U-S-X-X-BLAK-X

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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	76	69	62	73	67	61	71	65	60	68	63	59	57
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	54	45	38	66	53	45	38	52	44	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	30
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	28	23	35	28	23	34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3711
5°	3725
10°	3781
15°	3842
20°	3936
25°	4038
30°	4197
35°	4407
40°	4679
45°	4943
50°	5064
55°	5035
60°	4864
65°	4526
70°	4037
75°	3426
80°	2551
85°	1305

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 5064 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.8	2.6
10°-20°	123.8	7.7
20°-30°	199.6	12.4
30°-40°	267.1	16.6
40°-50°	316.0	19.7
50°-60°	302.6	18.8
60°-70°	223.1	13.9
70°-80°	111.7	7.0
80°-90°	20.1	1.2
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°	365.2	22.7
0°-40°	632.4	39.4
0°-60°	1251.0	77.9
0°-90°	1605.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1605.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	437	
5°	437	42
15°	437	124
25°	431	200
35°	425	267
45°	412	316
55°	340	303
65°	225	223
75°	104	112
85°	13	20
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	437.3
2.5°	437.3
5°	437.3
7.5°	437.3
10°	438.8
12.5°	437.3
15°	437.3
17.5°	435.8
20°	435.8
22.5°	432.8
25°	431.3
27.5°	429.8
30°	428.3
32.5°	426.8
35°	425.4
37.5°	423.9
40°	422.4
42.5°	419.4
45°	411.9
47.5°	400.0
50°	383.6
52.5°	362.7
55°	340.3
57.5°	314.9
60°	286.6
62.5°	256.7
65°	225.4
67.5°	195.5
70°	162.7
72.5°	134.3
75°	104.5
77.5°	77.6
80°	52.2
82.5°	31.3
85°	13.4
87.5°	3.0
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	18.25	19.95	18.62	20.27	20.58	18.25	19.95	18.62	20.27	20.58
	3H	19.87	21.41	20.24	21.73	22.09	19.87	21.41	20.24	21.73	22.09
	4H	20.39	21.84	20.79	22.19	22.56	20.39	21.84	20.79	22.19	22.56
	6H	20.69	22.03	21.10	22.40	22.79	20.69	22.03	21.10	22.40	22.79
	8H	20.75	22.03	21.17	22.42	22.82	20.75	22.03	21.17	22.42	22.82
	12H	20.77	22.00	21.20	22.38	22.81	20.77	22.00	21.20	22.38	22.81
4H	2H	18.86	20.31	19.25	20.65	21.03	18.86	20.31	19.25	20.65	21.03
	3H	20.67	21.88	21.08	22.28	22.68	20.67	21.88	21.08	22.28	22.68
	4H	21.29	22.39	21.72	22.80	23.23	21.29	22.39	21.72	22.80	23.23
	6H	21.69	22.64	22.14	23.08	23.54	21.69	22.64	22.14	23.08	23.54
	8H	21.77	22.67	22.23	23.11	23.57	21.77	22.67	22.23	23.11	23.57
	12H	21.81	22.61	22.29	23.09	23.56	21.81	22.61	22.29	23.09	23.56
8H	4H	21.53	22.43	21.99	22.87	23.33	21.53	22.43	21.99	22.87	23.33
	6H	22.00	22.74	22.49	23.23	23.70	22.00	22.74	22.49	23.23	23.70
	8H	22.12	22.78	22.63	23.29	23.77	22.12	22.78	22.63	23.29	23.77
	12H	22.18	22.77	22.69	23.26	23.82	22.18	22.77	22.69	23.26	23.82
12H	4H	21.55	22.35	22.02	22.82	23.29	21.55	22.35	22.02	22.82	23.29
	6H	22.01	22.68	22.52	23.19	23.67	22.01	22.68	22.52	23.19	23.67
	8H	22.17	22.76	22.68	23.25	23.81	22.17	22.76	22.68	23.25	23.81