

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: P866052

Luminaire Tested: PRLX-2001-M-935-45L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866052
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-935-45L-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 5
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

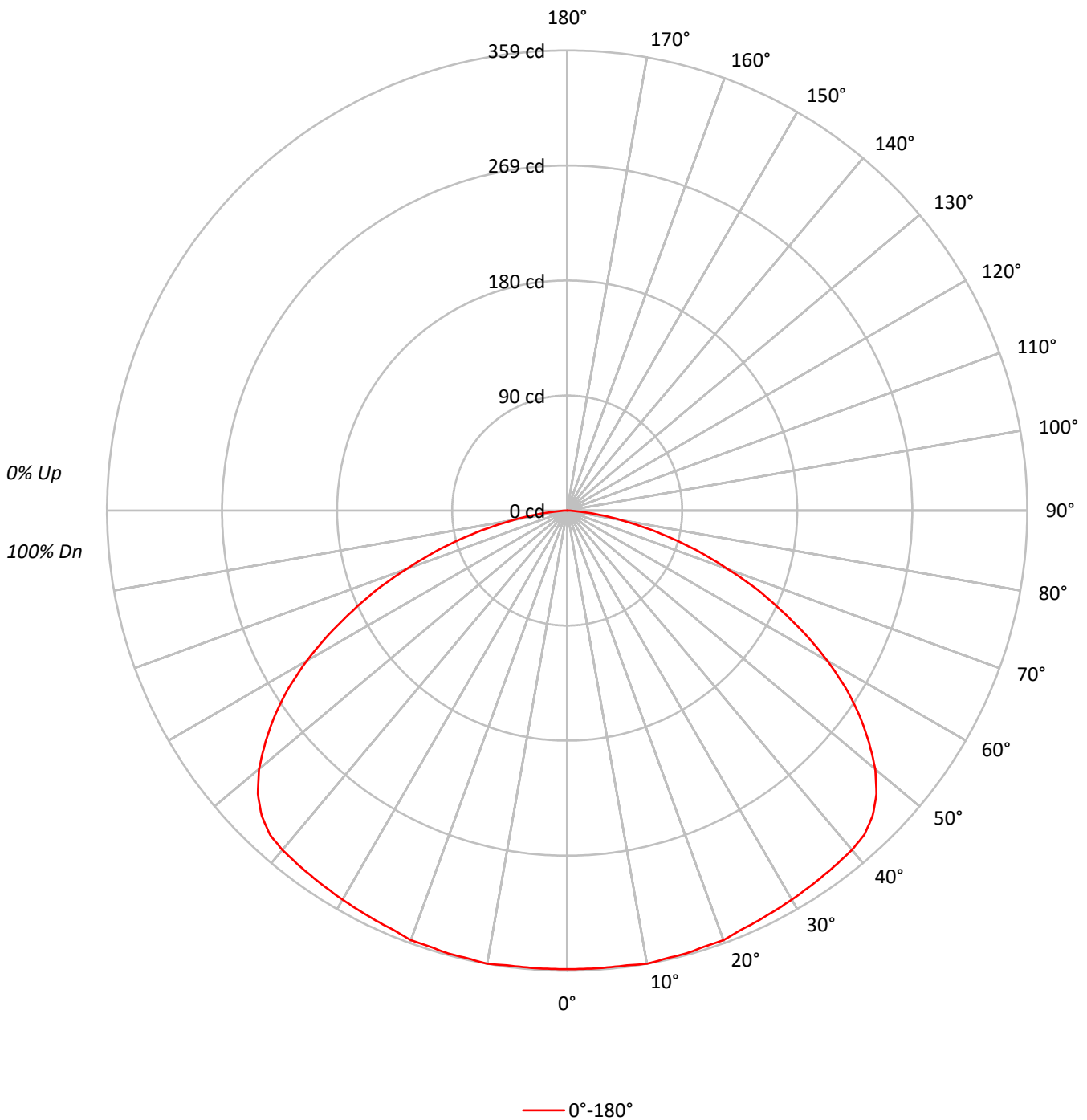
Lumens per Lamp: N/A
Luminaire Lumens: 1313.9 lumens
Efficiency: N/A
Efficacy: 33.9 lumens/watt
Spacing Criteria (0/90/45): 1.49 / 1.49 / 1.63
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 38.8
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	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°	3036
5°	3048
10°	3093
15°	3143
20°	3220
25°	3304
30°	3434
35°	3605
40°	3828
45°	4044
50°	4143
55°	4119
60°	3980
65°	3703
70°	3302
75°	2803
80°	2087
85°	1071

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 4143 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.2	2.6
10°-20°	101.3	7.7
20°-30°	163.3	12.4
30°-40°	218.6	16.6
40°-50°	258.5	19.7
50°-60°	247.6	18.8
60°-70°	182.6	13.9
70°-80°	91.4	7.0
80°-90°	16.4	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°	298.8	22.7
0°-40°	517.4	39.4
0°-60°	1023.5	77.9
0°-90°	1313.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1313.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	358	
5°	358	34
15°	358	101
25°	353	163
35°	348	219
45°	337	259
55°	278	248
65°	184	183
75°	86	91
85°	11	16
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	357.8
2.5°	357.8
5°	357.8
7.5°	357.8
10°	359.0
12.5°	357.8
15°	357.8
17.5°	356.6
20°	356.6
22.5°	354.1
25°	352.9
27.5°	351.7
30°	350.5
32.5°	349.2
35°	348.0
37.5°	346.8
40°	345.6
42.5°	343.1
45°	337.0
47.5°	327.3
50°	313.8
52.5°	296.7
55°	278.4
57.5°	257.7
60°	234.5
62.5°	210.0
65°	184.4
67.5°	160.0
70°	133.1
72.5°	109.9
75°	85.5
77.5°	63.5
80°	42.7
82.5°	25.6
85°	11.0
87.5°	2.4
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	17.56	19.26	17.92	19.57	19.89	17.56	19.26	17.92	19.57	19.89
	3H	19.17	20.71	19.55	21.04	21.40	19.17	20.71	19.55	21.04	21.40
	4H	19.69	21.14	20.09	21.49	21.86	19.69	21.14	20.09	21.49	21.86
	6H	19.99	21.34	20.40	21.70	22.09	19.99	21.34	20.40	21.70	22.09
	8H	20.05	21.34	20.48	21.73	22.12	20.05	21.34	20.48	21.73	22.12
	12H	20.07	21.30	20.50	21.68	22.11	20.07	21.30	20.50	21.68	22.11
4H	2H	18.16	19.61	18.56	19.96	20.33	18.16	19.61	18.56	19.96	20.33
	3H	19.97	21.18	20.38	21.58	21.98	19.97	21.18	20.38	21.58	21.98
	4H	20.60	21.69	21.03	22.10	22.54	20.60	21.69	21.03	22.10	22.54
	6H	20.99	21.95	21.44	22.39	22.84	20.99	21.95	21.44	22.39	22.84
	8H	21.08	21.97	21.53	22.41	22.88	21.08	21.97	21.53	22.41	22.88
	12H	21.11	21.92	21.59	22.39	22.86	21.11	21.92	21.59	22.39	22.86
8H	4H	20.83	21.73	21.29	22.17	22.64	20.83	21.73	21.29	22.17	22.64
	6H	21.30	22.04	21.79	22.53	23.00	21.30	22.04	21.79	22.53	23.00
	8H	21.42	22.09	21.93	22.59	23.08	21.42	22.09	21.93	22.59	23.08
	12H	21.48	22.07	21.99	22.56	23.12	21.48	22.07	21.99	22.56	23.12
12H	4H	20.85	21.65	21.33	22.13	22.60	20.85	21.65	21.33	22.13	22.60
	6H	21.32	21.98	21.82	22.49	22.97	21.32	21.98	21.82	22.49	22.97
	8H	21.48	22.06	21.98	22.55	23.11	21.48	22.06	21.98	22.55	23.11