

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: P866058

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866058
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-935-45L-L-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

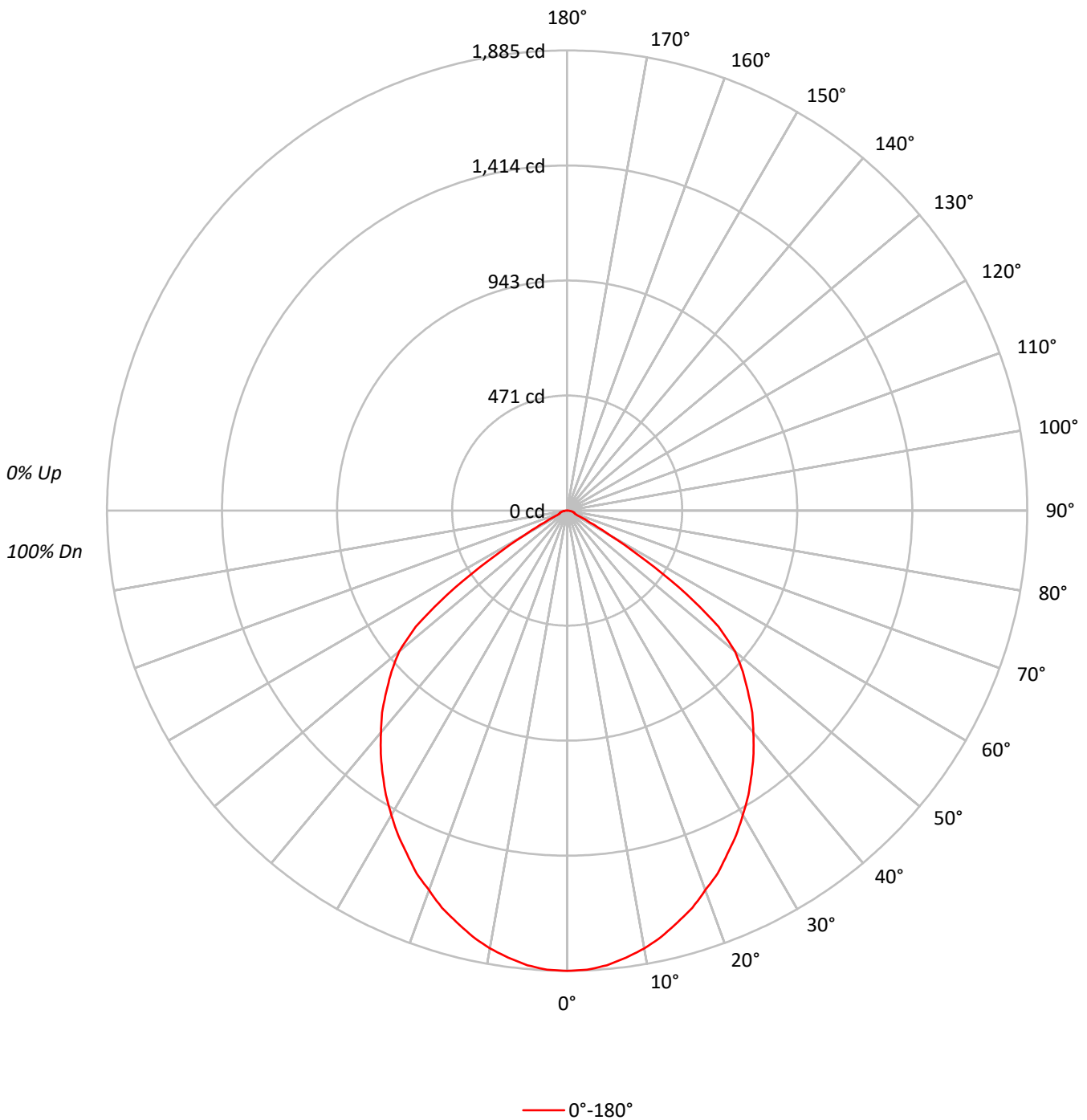
Lumens per Lamp: N/A
Luminaire Lumens: 3642.4 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	87	101	95	91	86	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	55
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49
7	72	60	52	46	70	59	52	46	57	51	46	56	50	46	55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36
10	59	47	39	35	58	46	39	35	45	39	34	44	39	34	44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	16000
5°	15925
10°	15689
15°	15341
20°	14942
25°	14532
30°	14107
35°	13650
40°	13148
45°	12559
50°	11849
55°	8871
60°	3503
65°	956
70°	819
75°	882
80°	953
85°	954

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12559 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.9	4.9
10°-20°	492.1	13.5
20°-30°	715.4	19.6
30°-40°	823.9	22.6
40°-50°	807.5	22.2
50°-60°	513.0	14.1
60°-70°	74.7	2.1
70°-80°	28.2	0.8
80°-90°	10.7	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°	1384.4	38.0
0°-40°	2208.3	60.6
0°-60°	3528.8	96.9
0°-90°	3642.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3642.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1885	
5°	1870	177
15°	1746	492
25°	1552	715
35°	1318	824
45°	1046	808
55°	600	513
65°	48	75
75°	27	28
85°	10	11
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1885.4
2.5°	1882.9
5°	1869.5
7.5°	1847.5
10°	1820.7
12.5°	1787.7
15°	1746.2
17.5°	1705.9
20°	1654.6
22.5°	1609.4
25°	1552.0
27.5°	1499.5
30°	1439.7
32.5°	1381.1
35°	1317.6
37.5°	1254.1
40°	1186.9
42.5°	1122.2
45°	1046.5
47.5°	975.7
50°	897.5
52.5°	781.5
55°	599.6
57.5°	382.2
60°	206.4
62.5°	103.8
65°	47.6
67.5°	34.2
70°	33.0
72.5°	30.5
75°	26.9
77.5°	23.2
80°	19.5
82.5°	14.7
85°	9.8
87.5°	4.9
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	16.94	18.34	17.30	18.65	18.97	16.94	18.34	17.30	18.65	18.97
	3H	16.87	18.10	17.25	18.43	18.80	16.87	18.10	17.25	18.43	18.80
	4H	16.85	17.99	17.25	18.34	18.72	16.85	17.99	17.25	18.34	18.72
	6H	16.82	17.88	17.24	18.24	18.64	16.82	17.88	17.24	18.24	18.64
	8H	16.81	17.80	17.24	18.20	18.60	16.81	17.80	17.24	18.20	18.60
	12H	16.79	17.74	17.22	18.12	18.55	16.79	17.74	17.22	18.12	18.55
4H	2H	16.78	17.93	17.18	18.28	18.66	16.78	17.93	17.18	18.28	18.66
	3H	16.74	17.67	17.16	18.07	18.47	16.74	17.67	17.16	18.07	18.47
	4H	16.73	17.55	17.17	17.97	18.41	16.73	17.55	17.17	17.97	18.41
	6H	16.74	17.45	17.20	17.90	18.36	16.74	17.45	17.20	17.90	18.36
	8H	16.73	17.39	17.20	17.84	18.31	16.73	17.39	17.20	17.84	18.31
	12H	16.72	17.31	17.21	17.79	18.27	16.72	17.31	17.21	17.79	18.27
8H	4H	16.64	17.30	17.11	17.75	18.22	16.64	17.30	17.11	17.75	18.22
	6H	16.66	17.21	17.16	17.70	18.18	16.66	17.21	17.16	17.70	18.18
	8H	16.66	17.16	17.18	17.67	18.16	16.66	17.16	17.18	17.67	18.16
	12H	16.67	17.12	17.19	17.62	18.19	16.67	17.12	17.19	17.62	18.19
12H	4H	16.60	17.19	17.09	17.67	18.14	16.60	17.19	17.09	17.67	18.14
	6H	16.61	17.11	17.13	17.62	18.11	16.61	17.11	17.13	17.62	18.11
	8H	16.64	17.09	17.15	17.58	18.15	16.64	17.09	17.15	17.58	18.15