

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: P866053

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866053
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-35)
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-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

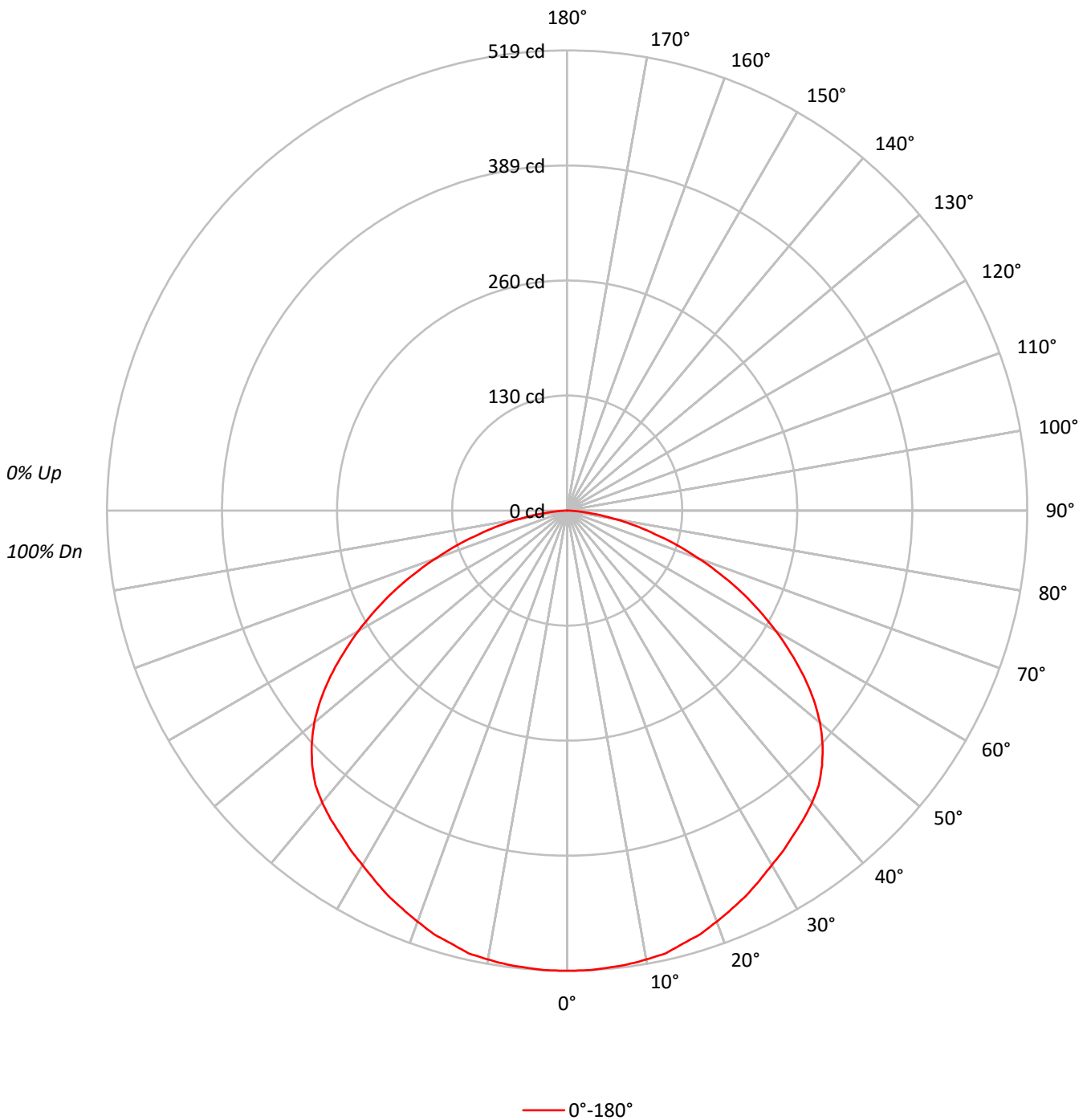
Lumens per Lamp: N/A
Luminaire Lumens: 1641.9 lumens
Efficiency: N/A
Efficacy: 42.3 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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: 0.333 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	109	104	100	96	106	102	98	94	97	94	91		94	91	88		90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75		82	77	73		79	75	72	69
3	90	79	71	64	87	77	70	63	74	68	62		72	66	61		69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39		51	44	39		49	43	39	37
7	64	50	41	35	62	49	41	35	48	40	35		46	39	34		45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31		42	36	31		41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28		39	32	27		38	32	27	25
10	52	39	30	25	51	38	30	25	37	30	25		36	29	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4404
5°	4410
10°	4430
15°	4441
20°	4455
25°	4482
30°	4523
35°	4617
40°	4761
45°	4880
50°	4916
55°	4823
60°	4621
65°	4339
70°	3908
75°	3364
80°	2683
85°	1665

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 4916 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.3	3.0
10°-20°	143.0	8.7
20°-30°	220.8	13.5
30°-40°	279.8	17.0
40°-50°	312.8	19.0
50°-60°	290.3	17.7
60°-70°	213.2	13.0
70°-80°	110.1	6.7
80°-90°	22.7	1.4
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°	413.1	25.2
0°-40°	692.9	42.2
0°-60°	1296.0	78.9
0°-90°	1641.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1641.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	519	
5°	518	49
15°	506	143
25°	479	221
35°	446	280
45°	407	313
55°	326	290
65°	216	213
75°	103	110
85°	17	23
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	519.0
2.5°	519.0
5°	517.7
7.5°	516.5
10°	514.1
12.5°	511.6
15°	505.5
17.5°	500.7
20°	493.3
22.5°	486.0
25°	478.7
27.5°	470.1
30°	461.6
32.5°	454.2
35°	445.7
37.5°	438.4
40°	429.8
42.5°	420.1
45°	406.6
47.5°	390.8
50°	372.4
52.5°	350.5
55°	326.0
57.5°	299.2
60°	272.3
62.5°	244.2
65°	216.1
67.5°	186.8
70°	157.5
72.5°	130.7
75°	102.6
77.5°	78.2
80°	54.9
82.5°	34.2
85°	17.1
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	17.86	19.53	18.23	19.85	20.16	17.86	19.53	18.23	19.85	20.16
	3H	19.50	21.01	19.88	21.34	21.70	19.50	21.01	19.88	21.34	21.70
	4H	20.05	21.47	20.45	21.82	22.19	20.05	21.47	20.45	21.82	22.19
	6H	20.39	21.71	20.80	22.07	22.46	20.39	21.71	20.80	22.07	22.46
	8H	20.47	21.73	20.90	22.12	22.52	20.47	21.73	20.90	22.12	22.52
	12H	20.51	21.71	20.94	22.09	22.52	20.51	21.71	20.94	22.09	22.52
4H	2H	18.47	19.89	18.87	20.24	20.61	18.47	19.89	18.87	20.24	20.61
	3H	20.31	21.50	20.72	21.90	22.30	20.31	21.50	20.72	21.90	22.30
	4H	20.97	22.04	21.40	22.45	22.89	20.97	22.04	21.40	22.45	22.89
	6H	21.41	22.35	21.87	22.79	23.24	21.41	22.35	21.87	22.79	23.24
	8H	21.52	22.40	21.98	22.84	23.31	21.52	22.40	21.98	22.84	23.31
	12H	21.58	22.37	22.06	22.85	23.31	21.58	22.37	22.06	22.85	23.31
8H	4H	21.22	22.09	21.68	22.54	23.00	21.22	22.09	21.68	22.54	23.00
	6H	21.75	22.48	22.24	22.96	23.44	21.75	22.48	22.24	22.96	23.44
	8H	21.90	22.56	22.41	23.06	23.55	21.90	22.56	22.41	23.06	23.55
	12H	22.00	22.58	22.51	23.07	23.63	22.00	22.58	22.51	23.07	23.63
12H	4H	21.23	22.02	21.71	22.50	22.97	21.23	22.02	21.71	22.50	22.97
	6H	21.77	22.43	22.28	22.93	23.42	21.77	22.43	22.28	22.93	23.42
	8H	21.97	22.55	22.48	23.04	23.60	21.97	22.55	22.48	23.04	23.60