

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: P866054

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866054
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-36)
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-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

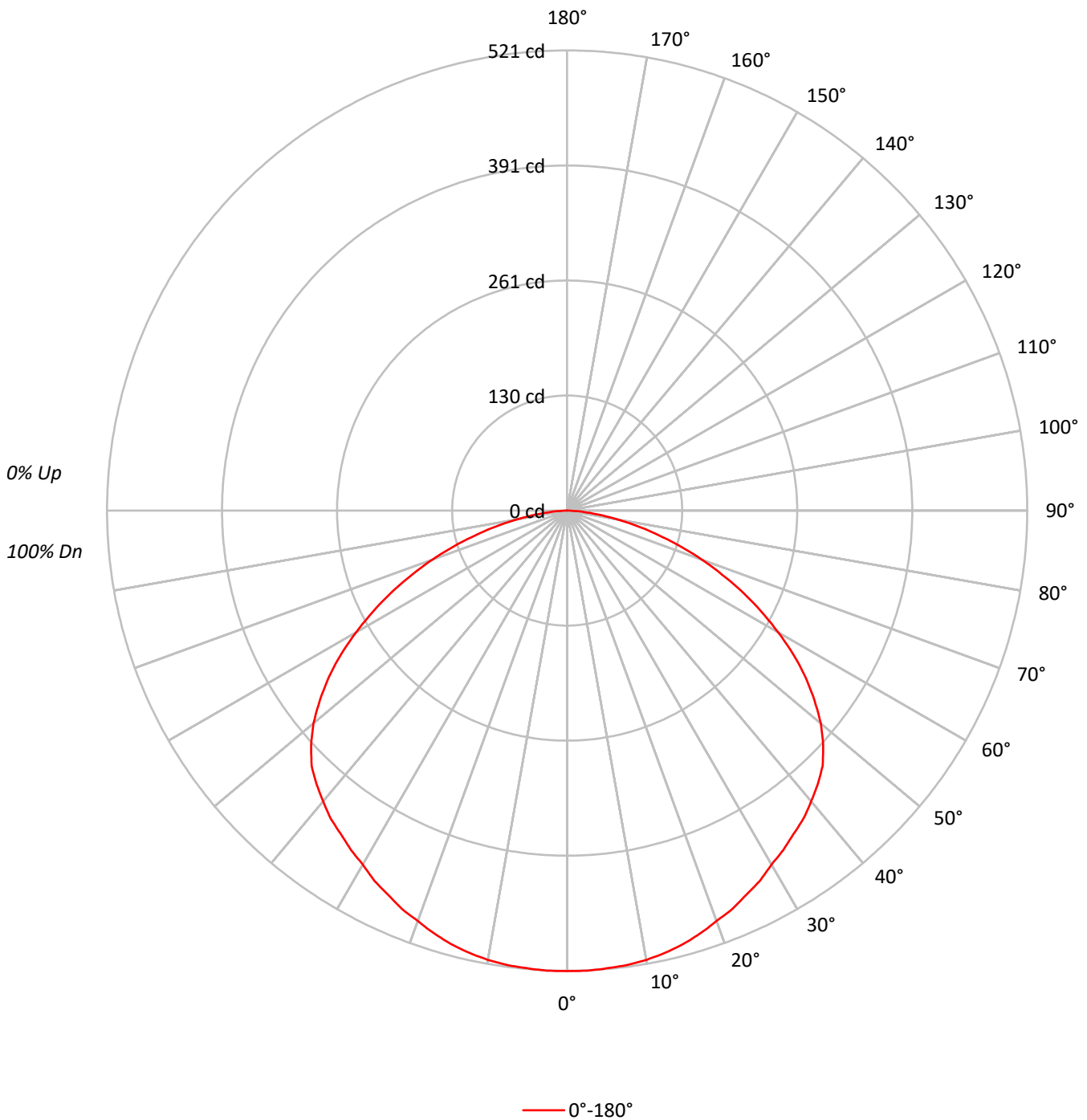
Lumens per Lamp: N/A
Luminaire Lumens: 1658.2 lumens
Efficiency: N/A
Efficacy: 42.7 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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: 0.5 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	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	69	61	54	79	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	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4425
5°	4431
10°	4451
15°	4463
20°	4466
25°	4493
30°	4535
35°	4630
40°	4761
45°	4910
50°	4949
55°	4878
60°	4684
65°	4413
70°	4029
75°	3482
80°	2805
85°	1899

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 4949 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.6	3.0
10°-20°	143.4	8.6
20°-30°	221.7	13.4
30°-40°	280.5	16.9
40°-50°	314.0	18.9
50°-60°	293.5	17.7
60°-70°	217.0	13.1
70°-80°	113.9	6.9
80°-90°	24.7	1.5
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°	414.7	25.0
0°-40°	695.1	41.9
0°-60°	1302.6	78.6
0°-90°	1658.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1658.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	521	
5°	520	50
15°	508	143
25°	480	222
35°	447	280
45°	409	314
55°	330	293
65°	220	217
75°	106	114
85°	20	25
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	521.4
2.5°	521.4
5°	520.2
7.5°	519.0
10°	516.5
12.5°	512.9
15°	508.0
17.5°	501.9
20°	494.5
22.5°	488.4
25°	479.9
27.5°	472.6
30°	462.8
32.5°	455.5
35°	446.9
37.5°	439.6
40°	429.8
42.5°	420.1
45°	409.1
47.5°	393.2
50°	374.9
52.5°	352.9
55°	329.7
57.5°	304.1
60°	276.0
62.5°	247.9
65°	219.8
67.5°	190.5
70°	162.4
72.5°	134.3
75°	106.2
77.5°	81.8
80°	57.4
82.5°	36.6
85°	19.5
87.5°	6.1
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	17.94	19.61	18.30	19.92	20.24	17.94	19.61	18.30	19.92	20.24
	3H	19.60	21.11	19.97	21.44	21.79	19.60	21.11	19.97	21.44	21.79
	4H	20.16	21.58	20.55	21.93	22.30	20.16	21.58	20.55	21.93	22.30
	6H	20.52	21.84	20.93	22.20	22.59	20.52	21.84	20.93	22.20	22.59
	8H	20.61	21.87	21.03	22.26	22.66	20.61	21.87	21.03	22.26	22.66
	12H	20.65	21.86	21.08	22.24	22.67	20.65	21.86	21.08	22.24	22.67
4H	2H	18.54	19.97	18.94	20.32	20.69	18.54	19.97	18.94	20.32	20.69
	3H	20.41	21.61	20.82	22.00	22.40	20.41	21.61	20.82	22.00	22.40
	4H	21.08	22.16	21.51	22.57	23.01	21.08	22.16	21.51	22.57	23.01
	6H	21.55	22.49	22.00	22.93	23.39	21.55	22.49	22.00	22.93	23.39
	8H	21.67	22.55	22.13	23.00	23.46	21.67	22.55	22.13	23.00	23.46
	12H	21.74	22.54	22.22	23.01	23.48	21.74	22.54	22.22	23.01	23.48
8H	4H	21.34	22.23	21.80	22.67	23.13	21.34	22.23	21.80	22.67	23.13
	6H	21.90	22.63	22.39	23.12	23.59	21.90	22.63	22.39	23.12	23.59
	8H	22.07	22.73	22.58	23.23	23.72	22.07	22.73	22.58	23.23	23.72
	12H	22.18	22.76	22.69	23.25	23.81	22.18	22.76	22.69	23.25	23.81
12H	4H	21.36	22.16	21.84	22.63	23.10	21.36	22.16	21.84	22.63	23.10
	6H	21.93	22.59	22.44	23.09	23.58	21.93	22.59	22.44	23.09	23.58
	8H	22.14	22.72	22.65	23.21	23.77	22.14	22.72	22.65	23.21	23.77