

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: P866566

Luminaire Tested: PRLX-2004-M-935-45L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866566
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-M-935-45L-G-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
BELL WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

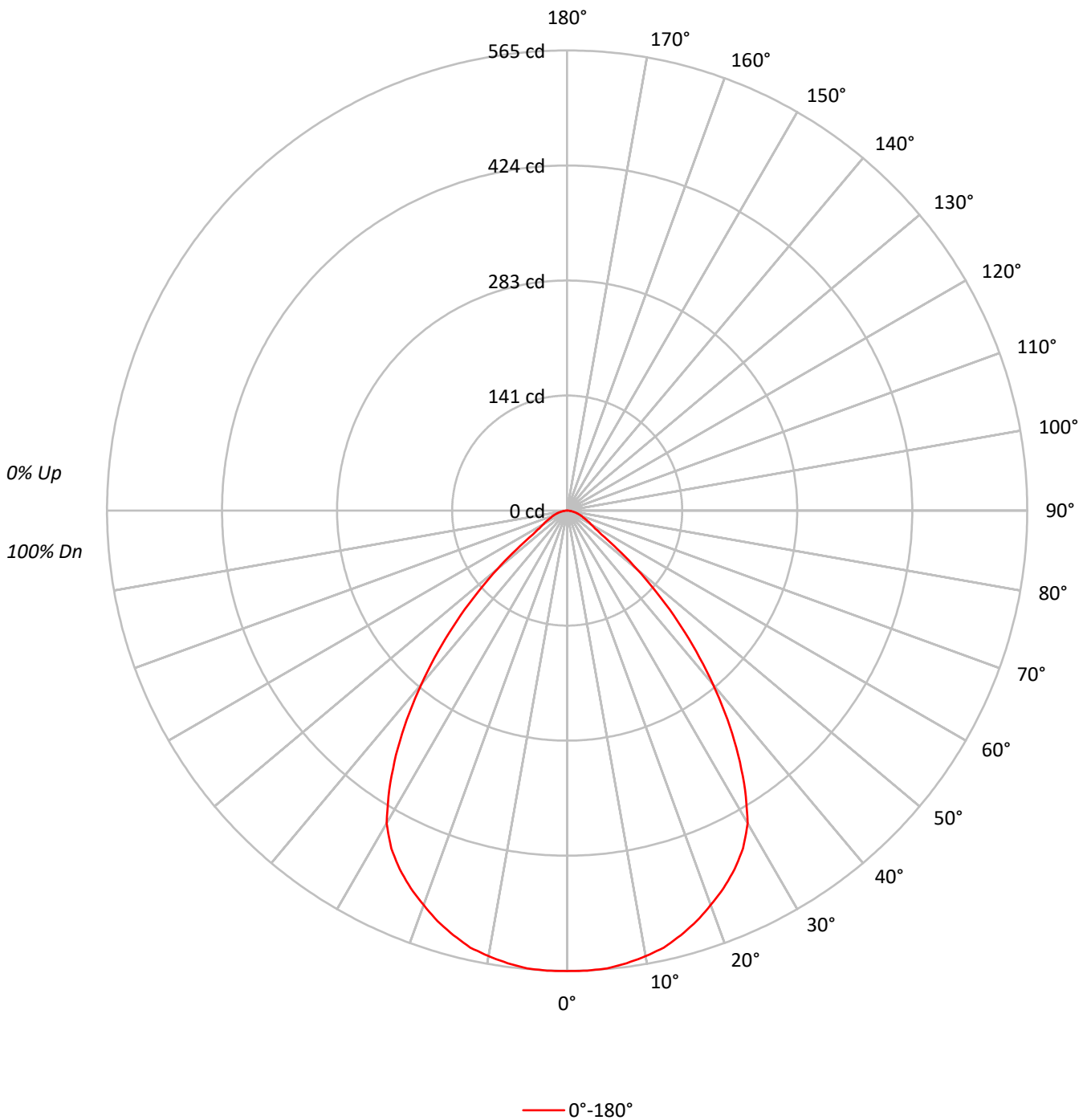
Lumens per Lamp: N/A
Luminaire Lumens: 898.2 lumens
Efficiency: N/A
Efficacy: 23.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.14
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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	112	109	105	103	109	106	104	101	102	100	98		98	97	95		95	94	92	90
2	105	99	94	89	102	97	92	88	94	90	86		90	87	85		88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77		83	79	76		81	77	74	73
4	91	82	75	70	89	81	75	70	79	73	69		77	72	68		75	71	67	65
5	86	75	68	63	84	74	68	63	72	67	62		71	65	61		69	64	61	59
6	80	69	62	57	78	68	62	57	67	61	56		65	60	56		64	59	55	54
7	75	64	57	52	74	63	56	52	62	56	51		61	55	51		59	54	51	49
8	71	59	52	47	69	59	52	47	57	51	47		56	51	47		55	50	46	45
9	67	55	48	43	65	55	48	43	54	47	43		53	47	43		52	46	43	41
10	63	51	45	40	62	51	44	40	50	44	40		49	44	40		48	43	40	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4498
5°	4506
10°	4488
15°	4445
20°	4363
25°	4266
30°	4072
35°	3558
40°	2891
45°	2157
50°	1390
55°	712
60°	544
65°	459
70°	426
75°	375
80°	334
85°	338

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2157 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.6	6.0
10°-20°	152.0	16.9
20°-30°	222.9	24.8
30°-40°	226.9	25.3
40°-50°	147.4	16.4
50°-60°	53.8	6.0
60°-70°	24.9	2.8
70°-80°	13.1	1.5
80°-90°	3.7	0.4
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°	428.5	47.7
0°-40°	655.4	73.0
0°-60°	856.6	95.4
0°-90°	898.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	898.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	565	
5°	564	54
15°	540	152
25°	486	223
35°	366	227
45°	192	147
55°	51	54
65°	24	25
75°	12	13
85°	4	4
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	565.4
2.5°	565.4
5°	564.2
7.5°	560.5
10°	555.6
12.5°	549.5
15°	539.7
17.5°	528.7
20°	515.3
22.5°	501.9
25°	486.0
27.5°	467.7
30°	443.3
32.5°	406.6
35°	366.3
37.5°	323.6
40°	278.4
42.5°	234.5
45°	191.7
47.5°	149.0
50°	112.3
52.5°	78.2
55°	51.3
57.5°	40.3
60°	34.2
62.5°	29.3
65°	24.4
67.5°	20.8
70°	18.3
72.5°	14.7
75°	12.2
77.5°	9.8
80°	7.3
82.5°	4.9
85°	3.7
87.5°	1.2
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	6.30	7.56	6.67	7.87	8.18	6.30	7.56	6.67	7.87	8.18
	3H	7.49	8.59	7.87	8.92	9.29	7.49	8.59	7.87	8.92	9.29
	4H	7.93	8.96	8.33	9.31	9.69	7.93	8.96	8.33	9.31	9.69
	6H	8.26	9.20	8.68	9.57	9.97	8.26	9.20	8.68	9.57	9.97
	8H	8.35	9.24	8.78	9.63	10.04	8.35	9.24	8.78	9.63	10.04
	12H	8.42	9.28	8.86	9.66	10.09	8.42	9.28	8.86	9.66	10.09
4H	2H	6.65	7.68	7.05	8.03	8.41	6.65	7.68	7.05	8.03	8.41
	3H	8.06	8.90	8.48	9.31	9.71	8.06	8.90	8.48	9.31	9.71
	4H	8.63	9.37	9.06	9.79	10.24	8.63	9.37	9.06	9.79	10.24
	6H	9.08	9.72	9.54	10.17	10.64	9.08	9.72	9.54	10.17	10.64
	8H	9.20	9.80	9.67	10.25	10.72	9.20	9.80	9.67	10.25	10.72
	12H	9.32	9.85	9.80	10.33	10.81	9.32	9.85	9.80	10.33	10.81
8H	4H	8.80	9.40	9.27	9.85	10.32	8.80	9.40	9.27	9.85	10.32
	6H	9.36	9.85	9.86	10.34	10.83	9.36	9.85	9.86	10.34	10.83
	8H	9.54	9.98	10.07	10.50	10.99	9.54	9.98	10.07	10.50	10.99
	12H	9.74	10.13	10.26	10.62	11.20	9.74	10.13	10.26	10.62	11.20
12H	4H	8.79	9.32	9.28	9.81	10.28	8.79	9.32	9.28	9.81	10.28
	6H	9.37	9.81	9.89	10.33	10.82	9.37	9.81	9.89	10.33	10.82
	8H	9.61	10.00	10.13	10.49	11.07	9.61	10.00	10.13	10.49	11.07