

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: P866574

Luminaire Tested: PRLX-2004-M-935-55L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866574
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-935-55L-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 6
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

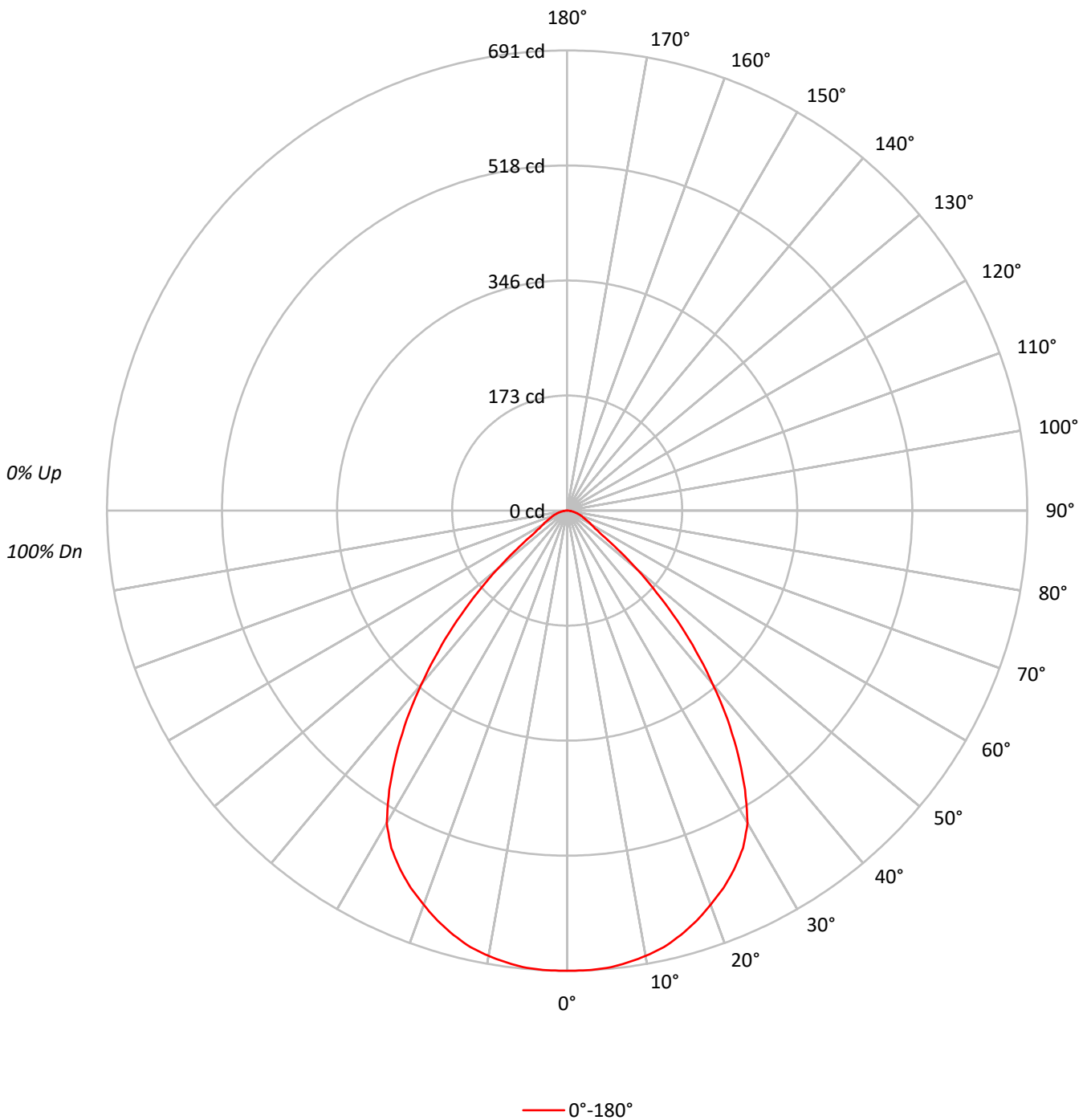
Lumens per Lamp: N/A
Luminaire Lumens: 1097.8 lumens
Efficiency: N/A
Efficacy: 22.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.14
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 48.3
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°	5497
5°	5506
10°	5486
15°	5434
20°	5332
25°	5214
30°	4977
35°	4348
40°	3534
45°	2636
50°	1699
55°	870
60°	665
65°	561
70°	521
75°	458
80°	412
85°	411

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2636 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.5	6.0
10°-20°	185.8	16.9
20°-30°	272.5	24.8
30°-40°	277.3	25.3
40°-50°	180.2	16.4
50°-60°	65.8	6.0
60°-70°	30.4	2.8
70°-80°	15.9	1.5
80°-90°	4.5	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°	523.7	47.7
0°-40°	801.0	73.0
0°-60°	1047.0	95.4
0°-90°	1097.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1097.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	691	
5°	690	65
15°	660	186
25°	594	272
35°	448	277
45°	234	180
55°	63	66
65°	30	30
75°	15	16
85°	4	4
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	691.0
2.5°	691.0
5°	689.5
7.5°	685.0
10°	679.1
12.5°	671.6
15°	659.7
17.5°	646.2
20°	629.8
22.5°	613.4
25°	594.0
27.5°	571.6
30°	541.8
32.5°	497.0
35°	447.7
37.5°	395.5
40°	340.3
42.5°	286.6
45°	234.3
47.5°	182.1
50°	137.3
52.5°	95.5
55°	62.7
57.5°	49.3
60°	41.8
62.5°	35.8
65°	29.8
67.5°	25.4
70°	22.4
72.5°	17.9
75°	14.9
77.5°	11.9
80°	9.0
82.5°	6.0
85°	4.5
87.5°	1.5
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	7.01	8.26	7.37	8.57	8.89	7.01	8.26	7.37	8.57	8.89
	3H	8.19	9.29	8.57	9.63	9.99	8.19	9.29	8.57	9.63	9.99
	4H	8.63	9.66	9.03	10.01	10.39	8.63	9.66	9.03	10.01	10.39
	6H	8.96	9.90	9.37	10.27	10.67	8.96	9.90	9.37	10.27	10.67
	8H	9.05	9.94	9.48	10.33	10.74	9.05	9.94	9.48	10.33	10.74
	12H	9.12	9.97	9.56	10.36	10.79	9.12	9.97	9.56	10.36	10.79
4H	2H	7.35	8.38	7.75	8.73	9.11	7.35	8.38	7.75	8.73	9.11
	3H	8.76	9.60	9.18	10.01	10.41	8.76	9.60	9.18	10.01	10.41
	4H	9.32	10.07	9.76	10.49	10.93	9.32	10.07	9.76	10.49	10.93
	6H	9.77	10.42	10.24	10.86	11.33	9.77	10.42	10.24	10.86	11.33
	8H	9.90	10.50	10.37	10.95	11.42	9.90	10.50	10.37	10.95	11.42
	12H	10.02	10.54	10.50	11.03	11.50	10.02	10.54	10.50	11.03	11.50
8H	4H	9.49	10.10	9.97	10.54	11.02	9.49	10.10	9.97	10.54	11.02
	6H	10.05	10.54	10.56	11.04	11.52	10.05	10.54	10.56	11.04	11.52
	8H	10.24	10.68	10.77	11.20	11.69	10.24	10.68	10.77	11.20	11.69
	12H	10.44	10.83	10.95	11.32	11.90	10.44	10.83	10.95	11.32	11.90
12H	4H	9.49	10.02	9.98	10.50	10.98	9.49	10.02	9.98	10.50	10.98
	6H	10.07	10.51	10.59	11.03	11.52	10.07	10.51	10.59	11.03	11.52
	8H	10.31	10.70	10.82	11.19	11.77	10.31	10.70	10.82	11.19	11.77