

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: P866318

Luminaire Tested: PRLX-2002-M-935-55L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866318
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-40)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-935-55L-G-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

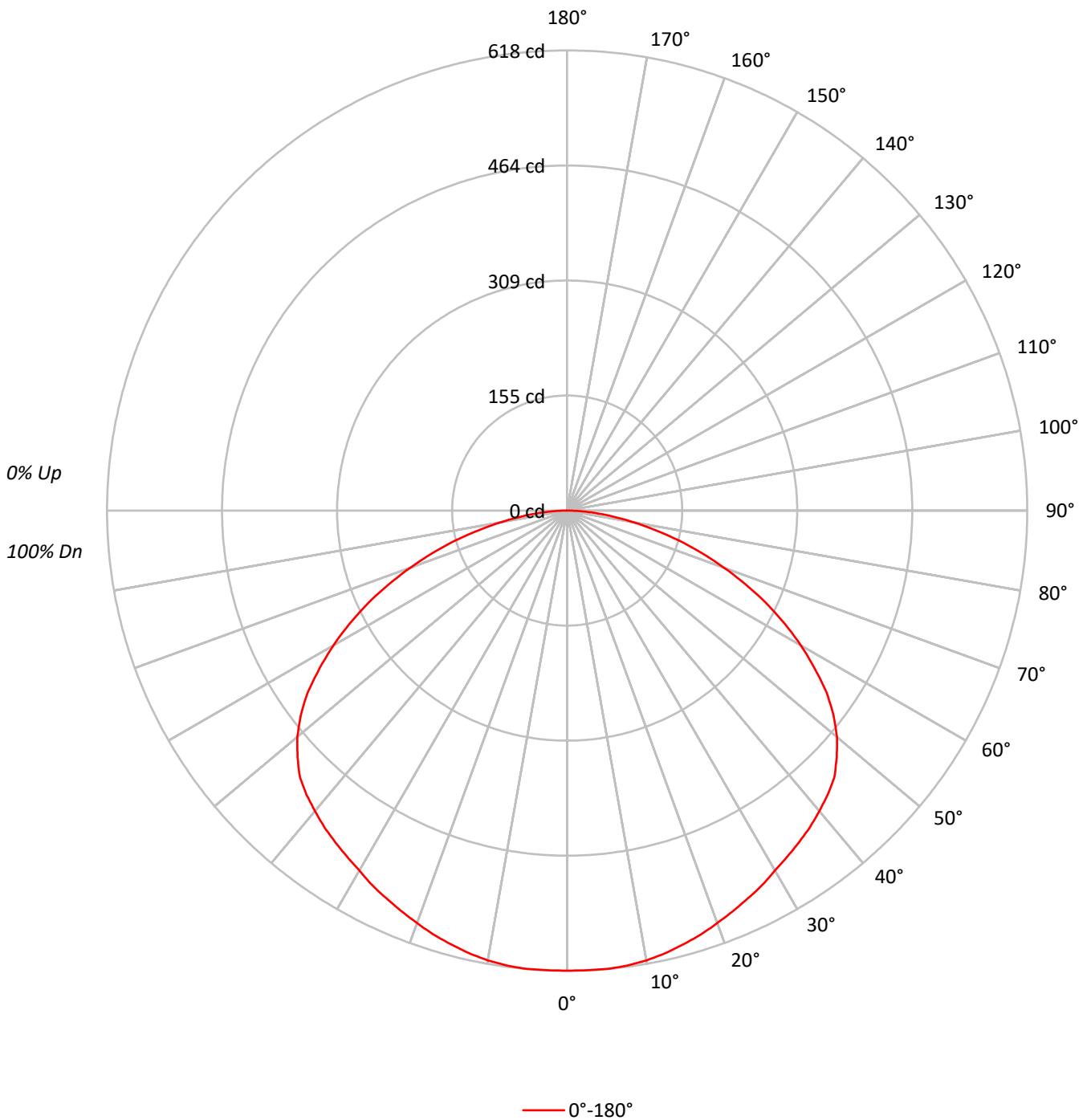
Lumens per Lamp: N/A
Luminaire Lumens: 2102.8 lumens
Efficiency: N/A
Efficacy: 43.5 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.53
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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: 0.5 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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47
5	74	61	51	44	72	59	51	44	57	49	44	55	48	43	53	47	43	40
6	68	54	45	38	66	53	44	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	58	44	36	30	57	44	35	30	42	35	29	41	34	29	40	34	29	27
9	55	41	32	26	53	40	32	26	39	31	26	38	31	26	37	31	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	24	34	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4916
5°	4935
10°	4955
15°	4967
20°	4991
25°	5044
30°	5128
35°	5277
40°	5471
45°	5709
50°	5856
55°	5899
60°	5771
65°	5563
70°	5208
75°	4771
80°	4169
85°	3405

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 5899 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.8	2.8
10°-20°	170.5	8.1
20°-30°	265.5	12.6
30°-40°	340.8	16.2
40°-50°	389.8	18.5
50°-60°	377.6	18.0
60°-70°	291.5	13.9
70°-80°	164.3	7.8
80°-90°	44.0	2.1
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°	494.8	23.5
0°-40°	835.5	39.7
0°-60°	1603.0	76.2
0°-90°	2102.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2102.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	618	
5°	618	59
15°	603	170
25°	575	265
35°	543	341
45°	507	390
55°	425	378
65°	296	292
75°	155	164
85°	37	44
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	617.9
2.5°	617.9
5°	617.9
7.5°	616.4
10°	613.4
12.5°	608.9
15°	603.0
17.5°	597.0
20°	589.5
22.5°	582.1
25°	574.6
27.5°	567.1
30°	558.2
32.5°	550.7
35°	543.3
37.5°	535.8
40°	526.8
42.5°	517.9
45°	507.4
47.5°	491.0
50°	473.1
52.5°	450.7
55°	425.3
57.5°	394.0
60°	362.7
62.5°	329.8
65°	295.5
67.5°	259.7
70°	223.9
72.5°	189.5
75°	155.2
77.5°	120.9
80°	91.0
82.5°	62.7
85°	37.3
87.5°	16.4
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	18.65	20.36	19.02	20.67	20.98	18.65	20.36	19.02	20.67	20.98
	3H	20.47	22.01	20.85	22.34	22.70	20.47	22.01	20.85	22.34	22.70
	4H	21.13	22.59	21.53	22.94	23.31	21.13	22.59	21.53	22.94	23.31
	6H	21.60	22.95	22.01	23.31	23.70	21.60	22.95	22.01	23.31	23.70
	8H	21.74	23.04	22.17	23.43	23.82	21.74	23.04	22.17	23.43	23.82
	12H	21.84	23.08	22.27	23.46	23.89	21.84	23.08	22.27	23.46	23.89
4H	2H	19.31	20.77	19.71	21.12	21.49	19.31	20.77	19.71	21.12	21.49
	3H	21.34	22.57	21.75	22.96	23.36	21.34	22.57	21.75	22.96	23.36
	4H	22.13	23.24	22.56	23.65	24.08	22.13	23.24	22.56	23.65	24.08
	6H	22.72	23.69	23.17	24.13	24.58	22.72	23.69	23.17	24.13	24.58
	8H	22.91	23.82	23.36	24.26	24.72	22.91	23.82	23.36	24.26	24.72
	12H	23.04	23.86	23.52	24.34	24.81	23.04	23.86	23.52	24.34	24.81
8H	4H	22.44	23.35	22.90	23.79	24.26	22.44	23.35	22.90	23.79	24.26
	6H	23.14	23.90	23.63	24.39	24.86	23.14	23.90	23.63	24.39	24.86
	8H	23.40	24.08	23.91	24.59	25.07	23.40	24.08	23.91	24.59	25.07
	12H	23.60	24.21	24.11	24.70	25.26	23.60	24.21	24.11	24.70	25.26
12H	4H	22.47	23.30	22.95	23.77	24.24	22.47	23.30	22.95	23.77	24.24
	6H	23.20	23.88	23.70	24.38	24.87	23.20	23.88	23.70	24.38	24.87
	8H	23.51	24.12	24.02	24.60	25.16	23.51	24.12	24.02	24.60	25.16