

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: P866638

Luminaire Tested: PRLX-2004-M-940-55L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866638
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-940-55L-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

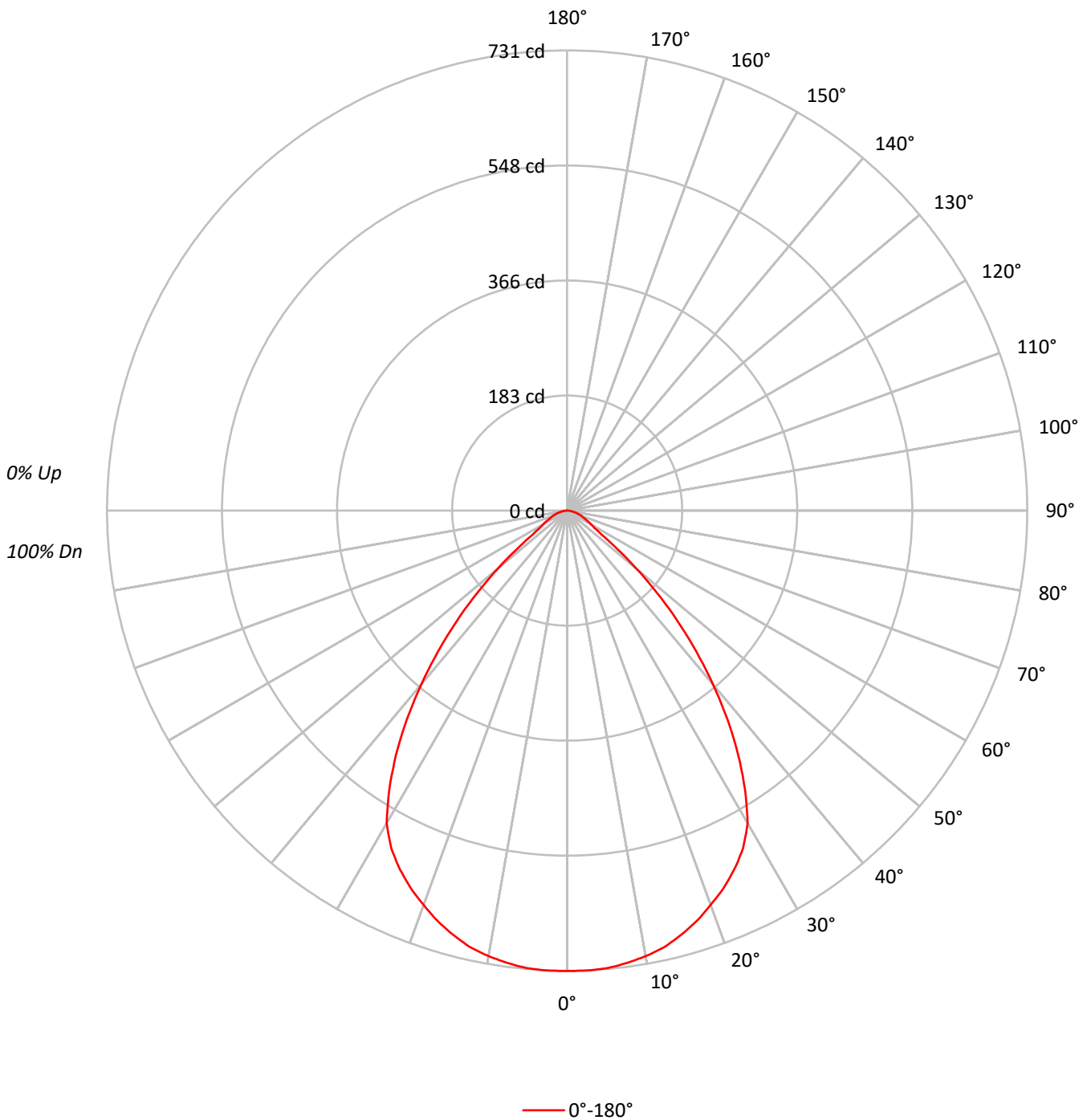
Lumens per Lamp: N/A
Luminaire Lumens: 1161.9 lumens
Efficiency: N/A
Efficacy: 24.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.14
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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°	5819
5°	5828
10°	5806
15°	5751
20°	5644
25°	5519
30°	5268
35°	4603
40°	3741
45°	2790
50°	1798
55°	920
60°	703
65°	595
70°	551
75°	486
80°	435
85°	429

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2790 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	6.0
10°-20°	196.6	16.9
20°-30°	288.4	24.8
30°-40°	293.5	25.3
40°-50°	190.7	16.4
50°-60°	69.6	6.0
60°-70°	32.2	2.8
70°-80°	16.9	1.5
80°-90°	4.7	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°	554.3	47.7
0°-40°	847.8	73.0
0°-60°	1108.1	95.4
0°-90°	1161.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1161.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	731	
5°	730	69
15°	698	197
25°	629	288
35°	474	293
45°	248	191
55°	66	70
65°	32	32
75°	16	17
85°	5	5
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	731.4
2.5°	731.4
5°	729.8
7.5°	725.0
10°	718.7
12.5°	710.8
15°	698.2
17.5°	684.0
20°	666.6
22.5°	649.2
25°	628.7
27.5°	605.0
30°	573.4
32.5°	526.0
35°	473.9
37.5°	418.6
40°	360.2
42.5°	303.3
45°	248.0
47.5°	192.7
50°	145.3
52.5°	101.1
55°	66.3
57.5°	52.1
60°	44.2
62.5°	37.9
65°	31.6
67.5°	26.9
70°	23.7
72.5°	19.0
75°	15.8
77.5°	12.6
80°	9.5
82.5°	6.3
85°	4.7
87.5°	1.6
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	7.19	8.45	7.56	8.76	9.07	7.19	8.45	7.56	8.76	9.07
	3H	8.38	9.49	8.76	9.82	10.18	8.38	9.49	8.76	9.82	10.18
	4H	8.82	9.85	9.22	10.20	10.59	8.82	9.85	9.22	10.20	10.59
	6H	9.15	10.09	9.57	10.47	10.86	9.15	10.09	9.57	10.47	10.86
	8H	9.24	10.13	9.67	10.53	10.93	9.24	10.13	9.67	10.53	10.93
	12H	9.31	10.16	9.75	10.55	10.98	9.31	10.16	9.75	10.55	10.98
4H	2H	7.54	8.57	7.94	8.92	9.31	7.54	8.57	7.94	8.92	9.31
	3H	8.96	9.79	9.37	10.20	10.60	8.96	9.79	9.37	10.20	10.60
	4H	9.52	10.27	9.96	10.69	11.13	9.52	10.27	9.96	10.69	11.13
	6H	9.97	10.61	10.44	11.06	11.53	9.97	10.61	10.44	11.06	11.53
	8H	10.10	10.70	10.57	11.14	11.62	10.10	10.70	10.57	11.14	11.62
	12H	10.21	10.73	10.69	11.22	11.69	10.21	10.73	10.69	11.22	11.69
8H	4H	9.69	10.29	10.16	10.74	11.21	9.69	10.29	10.16	10.74	11.21
	6H	10.25	10.74	10.75	11.24	11.72	10.25	10.74	10.75	11.24	11.72
	8H	10.43	10.88	10.96	11.39	11.89	10.43	10.88	10.96	11.39	11.89
	12H	10.63	11.01	11.14	11.51	12.08	10.63	11.01	11.14	11.51	12.08
12H	4H	9.69	10.22	10.18	10.70	11.18	9.69	10.22	10.18	10.70	11.18
	6H	10.26	10.70	10.79	11.22	11.71	10.26	10.70	10.79	11.22	11.71
	8H	10.50	10.89	11.02	11.38	11.96	10.50	10.89	11.02	11.38	11.96