

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: P867406

Luminaire Tested: PRLX-2004-L-940-48L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867406
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-86)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-L-940-48L-L-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
BELL WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

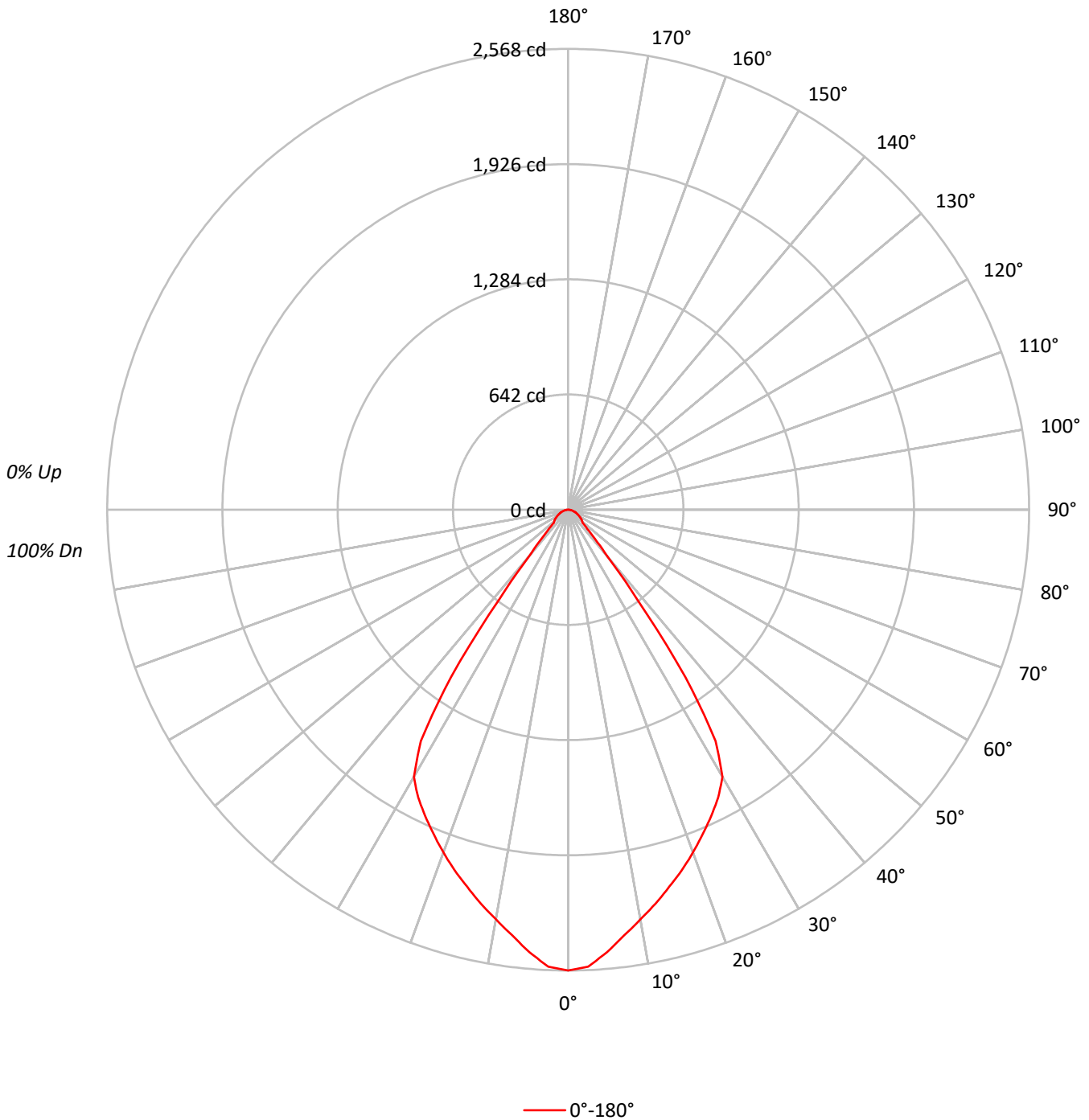
Lumens per Lamp: N/A
Luminaire Lumens: 2677.7 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 0.98
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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	113	110	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	101	94	88	84	99	92	87	83	89	85	82	87	83	80	85	82	79	77
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	79	76	73	71
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66
6	85	75	69	64	83	74	68	64	73	68	64	71	67	63	70	66	63	61
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53
9	72	62	56	51	71	62	55	51	61	55	51	60	55	51	59	54	51	49
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	56	51	48	46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	12670
5°	12257
10°	11616
15°	11112
20°	10670
25°	10254
30°	9791
35°	6859
40°	2158
45°	1047
50°	781
55°	753
60°	702
65°	649
70°	604
75°	564
80°	531
85°	492

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1047 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.2	8.6
10°-20°	612.8	22.9
20°-30°	866.7	32.4
30°-40°	660.0	24.6
40°-50°	132.7	5.0
50°-60°	77.8	2.9
60°-70°	55.4	2.1
70°-80°	31.6	1.2
80°-90°	9.8	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°	1710.6	63.9
0°-40°	2370.6	88.5
0°-60°	2581.1	96.4
0°-90°	2677.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2677.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2568	
5°	2475	231
15°	2175	613
25°	1884	867
35°	1139	660
45°	150	133
55°	88	78
65°	56	55
75°	30	32
85°	9	10
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2567.9
2.5°	2548.8
5°	2474.9
7.5°	2391.9
10°	2318.5
12.5°	2247.9
15°	2175.4
17.5°	2106.1
20°	2032.3
22.5°	1957.5
25°	1883.6
27.5°	1808.9
30°	1718.6
32.5°	1527.6
35°	1138.8
37.5°	629.6
40°	335.1
42.5°	221.6
45°	150.0
47.5°	108.0
50°	101.7
52.5°	95.3
55°	87.5
57.5°	78.9
60°	71.1
62.5°	62.9
65°	55.6
67.5°	48.8
70°	41.9
72.5°	35.6
75°	29.6
77.5°	24.2
80°	18.7
82.5°	13.7
85°	8.7
87.5°	4.1
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	5.80	6.85	6.16	7.16	7.47	5.80	6.85	6.16	7.16	7.47
	3H	7.36	8.29	7.74	8.62	8.99	7.36	8.29	7.74	8.62	8.99
	4H	7.95	8.81	8.36	9.16	9.55	7.95	8.81	8.36	9.16	9.55
	6H	8.41	9.20	8.82	9.57	9.97	8.41	9.20	8.82	9.57	9.97
	8H	8.56	9.31	9.00	9.70	10.11	8.56	9.31	9.00	9.70	10.11
	12H	8.66	9.37	9.10	9.76	10.19	8.66	9.37	9.10	9.76	10.19
4H	2H	6.26	7.12	6.67	7.47	7.86	6.26	7.12	6.67	7.47	7.86
	3H	8.03	8.74	8.45	9.15	9.55	8.03	8.74	8.45	9.15	9.55
	4H	8.75	9.38	9.18	9.80	10.25	8.75	9.38	9.18	9.80	10.25
	6H	9.34	9.88	9.80	10.33	10.80	9.34	9.88	9.80	10.33	10.80
	8H	9.54	10.04	10.01	10.49	10.97	9.54	10.04	10.01	10.49	10.97
	12H	9.68	10.12	10.17	10.61	11.09	9.68	10.12	10.17	10.61	11.09
8H	4H	8.97	9.47	9.44	9.92	10.40	8.97	9.47	9.44	9.92	10.40
	6H	9.70	10.10	10.20	10.60	11.08	9.70	10.10	10.20	10.60	11.08
	8H	9.98	10.34	10.52	10.86	11.36	9.98	10.34	10.52	10.86	11.36
	12H	10.22	10.53	10.75	11.03	11.61	10.22	10.53	10.75	11.03	11.61
12H	4H	8.97	9.41	9.46	9.89	10.37	8.97	9.41	9.46	9.89	10.37
	6H	9.73	10.09	10.26	10.61	11.11	9.73	10.09	10.26	10.61	11.11
	8H	10.08	10.39	10.61	10.89	11.47	10.08	10.39	10.61	10.89	11.47