

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: P866606

Luminaire Tested: PRLX-2004-M-940-15L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866606
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-940-15L-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 2
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

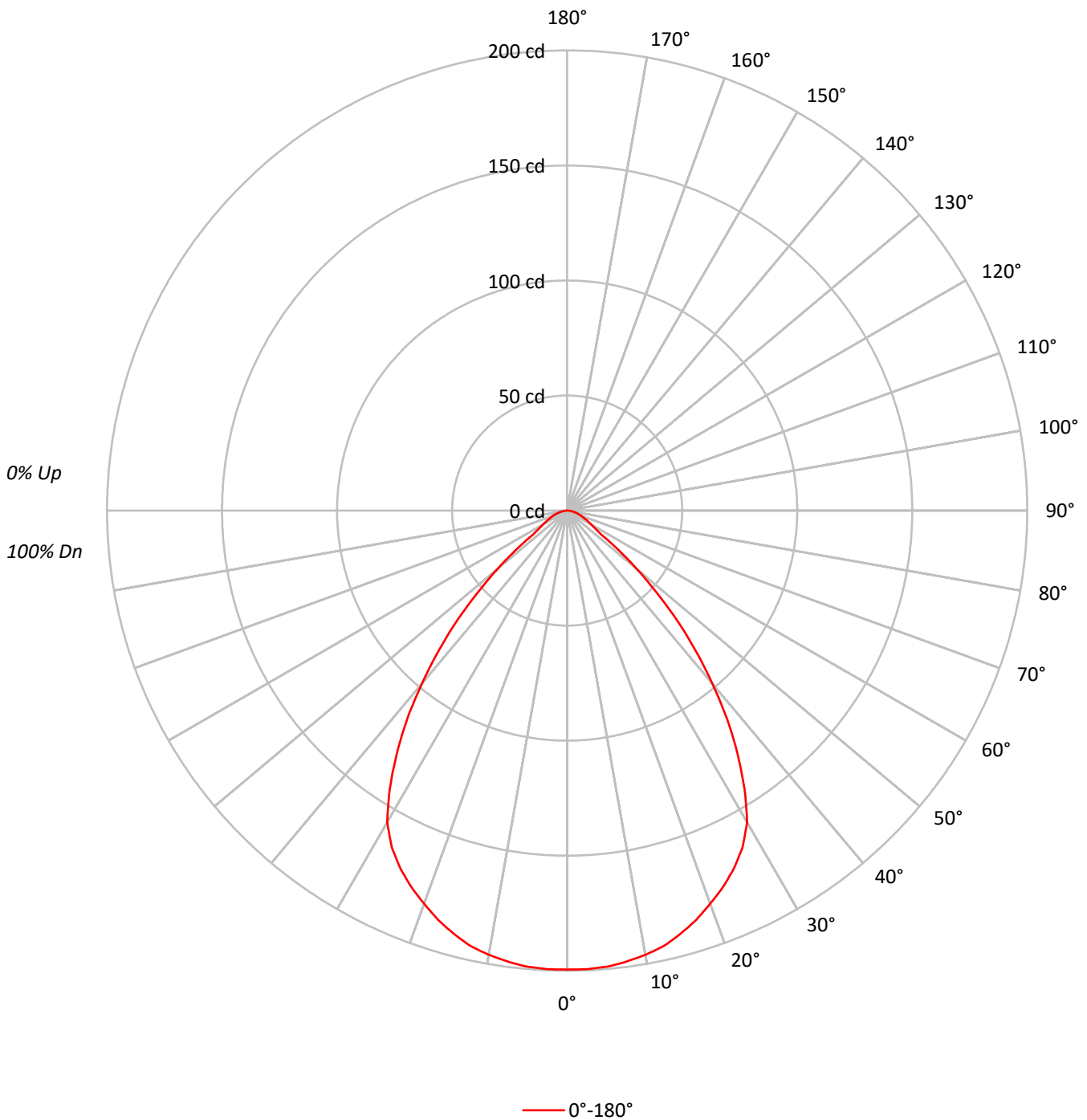
Lumens per Lamp: N/A
Luminaire Lumens: 316.9 lumens
Efficiency: N/A
Efficacy: 22.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.14
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 14
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°	1587
5°	1589
10°	1583
15°	1568
20°	1539
25°	1505
30°	1437
35°	1255
40°	1020
45°	761
50°	490
55°	251
60°	193
65°	162
70°	151
75°	132
80°	119
85°	119

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 761 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.9	6.0
10°-20°	53.6	16.9
20°-30°	78.7	24.8
30°-40°	80.0	25.3
40°-50°	52.0	16.4
50°-60°	19.0	6.0
60°-70°	8.8	2.8
70°-80°	4.6	1.5
80°-90°	1.3	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°	151.2	47.7
0°-40°	231.2	73.0
0°-60°	302.2	95.4
0°-90°	316.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	316.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	200	
5°	199	19
15°	190	54
25°	172	79
35°	129	80
45°	68	52
55°	18	19
65°	9	9
75°	4	5
85°	1	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	199.5
2.5°	199.5
5°	199.0
7.5°	197.7
10°	196.0
12.5°	193.9
15°	190.4
17.5°	186.5
20°	181.8
22.5°	177.1
25°	171.5
27.5°	165.0
30°	156.4
32.5°	143.5
35°	129.2
37.5°	114.2
40°	98.2
42.5°	82.7
45°	67.6
47.5°	52.6
50°	39.6
52.5°	27.6
55°	18.1
57.5°	14.2
60°	12.1
62.5°	10.3
65°	8.6
67.5°	7.3
70°	6.5
72.5°	5.2
75°	4.3
77.5°	3.4
80°	2.6
82.5°	1.7
85°	1.3
87.5°	0.4
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	2.68	3.93	3.04	4.24	4.56	2.68	3.93	3.04	4.24	4.56
	3H	3.86	4.97	4.24	5.30	5.66	3.86	4.97	4.24	5.30	5.66
	4H	4.30	5.33	4.71	5.68	6.07	4.30	5.33	4.71	5.68	6.07
	6H	4.63	5.57	5.05	5.95	6.34	4.63	5.57	5.05	5.95	6.34
	8H	4.72	5.61	5.15	6.00	6.41	4.72	5.61	5.15	6.00	6.41
	12H	4.79	5.64	5.22	6.03	6.46	4.79	5.64	5.22	6.03	6.46
4H	2H	3.02	4.05	3.43	4.40	4.79	3.02	4.05	3.43	4.40	4.79
	3H	4.44	5.28	4.86	5.69	6.09	4.44	5.28	4.86	5.69	6.09
	4H	5.00	5.75	5.44	6.17	6.62	5.00	5.75	5.44	6.17	6.62
	6H	5.45	6.09	5.92	6.54	7.01	5.45	6.09	5.92	6.54	7.01
	8H	5.57	6.17	6.04	6.62	7.09	5.57	6.17	6.04	6.62	7.09
	12H	5.69	6.21	6.17	6.70	7.17	5.69	6.21	6.17	6.70	7.17
8H	4H	5.17	5.78	5.65	6.22	6.70	5.17	5.78	5.65	6.22	6.70
	6H	5.73	6.22	6.23	6.72	7.20	5.73	6.22	6.23	6.72	7.20
	8H	5.91	6.35	6.44	6.87	7.36	5.91	6.35	6.44	6.87	7.36
	12H	6.10	6.49	6.62	6.99	7.56	6.10	6.49	6.62	6.99	7.56
12H	4H	5.17	5.70	5.66	6.18	6.66	5.17	5.70	5.66	6.18	6.66
	6H	5.74	6.18	6.27	6.70	7.19	5.74	6.18	6.27	6.70	7.19
	8H	5.98	6.36	6.49	6.86	7.43	5.98	6.36	6.49	6.86	7.43