

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: P866442

Luminaire Tested: PRLX-2004-M-927-45L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866442
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-56)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-M-927-45L-L-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
BELL WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

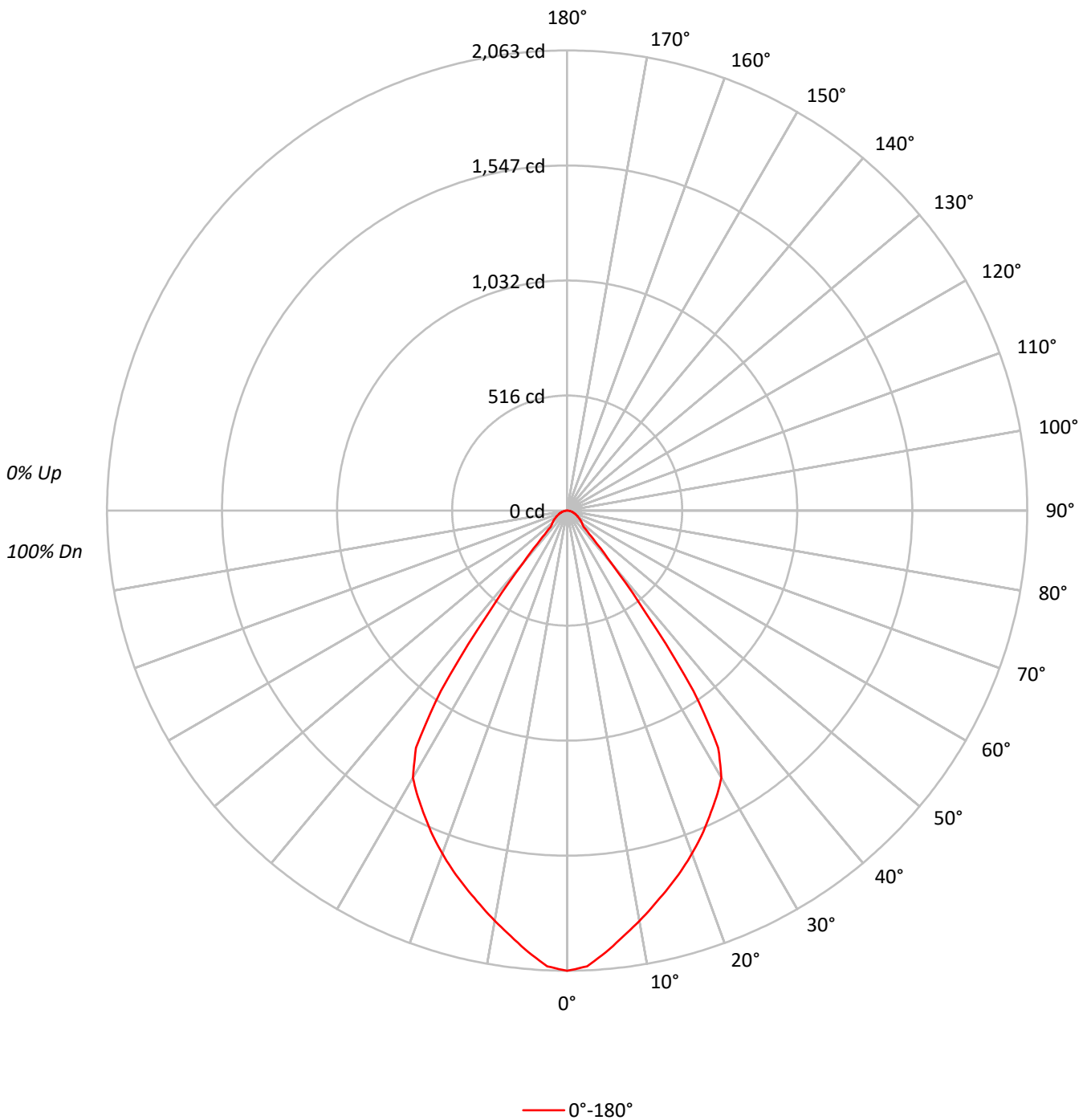
Lumens per Lamp: N/A
Luminaire Lumens: 2185.7 lumens
Efficiency: N/A
Efficacy: 56.3 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 38.8
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	107	105	103	103	101	100		100	98	97		96	95	94	92
2	106	101	97	93	104	99	95	92	96	93	90		93	90	88		90	88	86	84
3	101	93	88	84	98	92	87	83	89	85	82		87	83	80		85	82	79	77
4	95	87	81	76	93	85	80	76	83	78	75		81	77	74		79	76	73	71
5	90	81	74	70	88	80	74	69	78	73	69		76	72	68		74	71	67	66
6	85	75	69	64	83	74	68	64	73	67	63		71	67	63		70	66	62	61
7	80	70	64	59	79	70	63	59	68	63	59		67	62	58		66	61	58	57
8	76	66	59	55	75	65	59	55	64	59	55		63	58	54		62	57	54	53
9	72	62	55	51	71	61	55	51	60	55	51		59	54	51		58	54	51	49
10	68	58	52	48	67	58	52	48	57	51	48		56	51	47		55	51	47	46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	16414
5°	15875
10°	15091
15°	14426
20°	13853
25°	13260
30°	12702
35°	9581
40°	3189
45°	1181
50°	1074
55°	982
60°	889
65°	817
70°	770
75°	738
80°	678
85°	630

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1181 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.9	8.5
10°-20°	493.3	22.6
20°-30°	696.0	31.8
30°-40°	562.5	25.7
40°-50°	107.7	4.9
50°-60°	63.6	2.9
60°-70°	43.5	2.0
70°-80°	25.3	1.2
80°-90°	7.9	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
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0°-30°	1375.2	62.9
0°-40°	1937.8	88.7
0°-60°	2109.0	96.5
0°-90°	2185.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2185.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2063	
5°	1988	186
15°	1752	493
25°	1511	696
35°	986	563
45°	105	108
55°	71	64
65°	43	43
75°	24	25
85°	7	8
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2063.2
2.5°	2044.9
5°	1987.8
7.5°	1925.0
10°	1868.0
12.5°	1808.6
15°	1751.5
17.5°	1695.5
20°	1636.2
22.5°	1575.7
25°	1510.6
27.5°	1448.9
30°	1382.7
32.5°	1260.5
35°	986.5
37.5°	582.3
40°	307.1
42.5°	172.4
45°	105.0
47.5°	92.5
50°	86.8
52.5°	78.8
55°	70.8
57.5°	63.9
60°	55.9
62.5°	50.2
65°	43.4
67.5°	37.7
70°	33.1
72.5°	28.5
75°	24.0
77.5°	19.4
80°	14.8
82.5°	11.4
85°	6.9
87.5°	3.4
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	6.69	7.73	7.05	8.05	8.36	6.69	7.73	7.05	8.05	8.36
	3H	8.15	9.08	8.53	9.41	9.78	8.15	9.08	8.53	9.41	9.78
	4H	8.76	9.62	9.16	9.97	10.36	8.76	9.62	9.16	9.97	10.36
	6H	9.21	10.00	9.63	10.37	10.77	9.21	10.00	9.63	10.37	10.77
	8H	9.38	10.12	9.81	10.51	10.92	9.38	10.12	9.81	10.51	10.92
	12H	9.48	10.19	9.92	10.58	11.01	9.48	10.19	9.92	10.58	11.01
4H	2H	7.11	7.97	7.51	8.32	8.71	7.11	7.97	7.51	8.32	8.71
	3H	8.81	9.51	9.22	9.92	10.32	8.81	9.51	9.22	9.92	10.32
	4H	9.54	10.17	9.98	10.60	11.04	9.54	10.17	9.98	10.60	11.04
	6H	10.13	10.67	10.60	11.12	11.60	10.13	10.67	10.60	11.12	11.60
	8H	10.35	10.85	10.82	11.30	11.78	10.35	10.85	10.82	11.30	11.78
	12H	10.50	10.94	10.99	11.42	11.90	10.50	10.94	10.99	11.42	11.90
8H	4H	9.77	10.27	10.25	10.72	11.20	9.77	10.27	10.25	10.72	11.20
	6H	10.50	10.90	11.00	11.40	11.88	10.50	10.90	11.00	11.40	11.88
	8H	10.81	11.16	11.34	11.68	12.18	10.81	11.16	11.34	11.68	12.18
	12H	11.05	11.36	11.57	11.86	12.44	11.05	11.36	11.57	11.86	12.44
12H	4H	9.77	10.21	10.26	10.70	11.17	9.77	10.21	10.26	10.70	11.17
	6H	10.54	10.89	11.07	11.41	11.91	10.54	10.89	11.07	11.41	11.91
	8H	10.91	11.22	11.43	11.72	12.29	10.91	11.22	11.43	11.72	12.29