

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: P867214

Luminaire Tested: PRLX-2004-L-927-48L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867214
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-927-48L-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

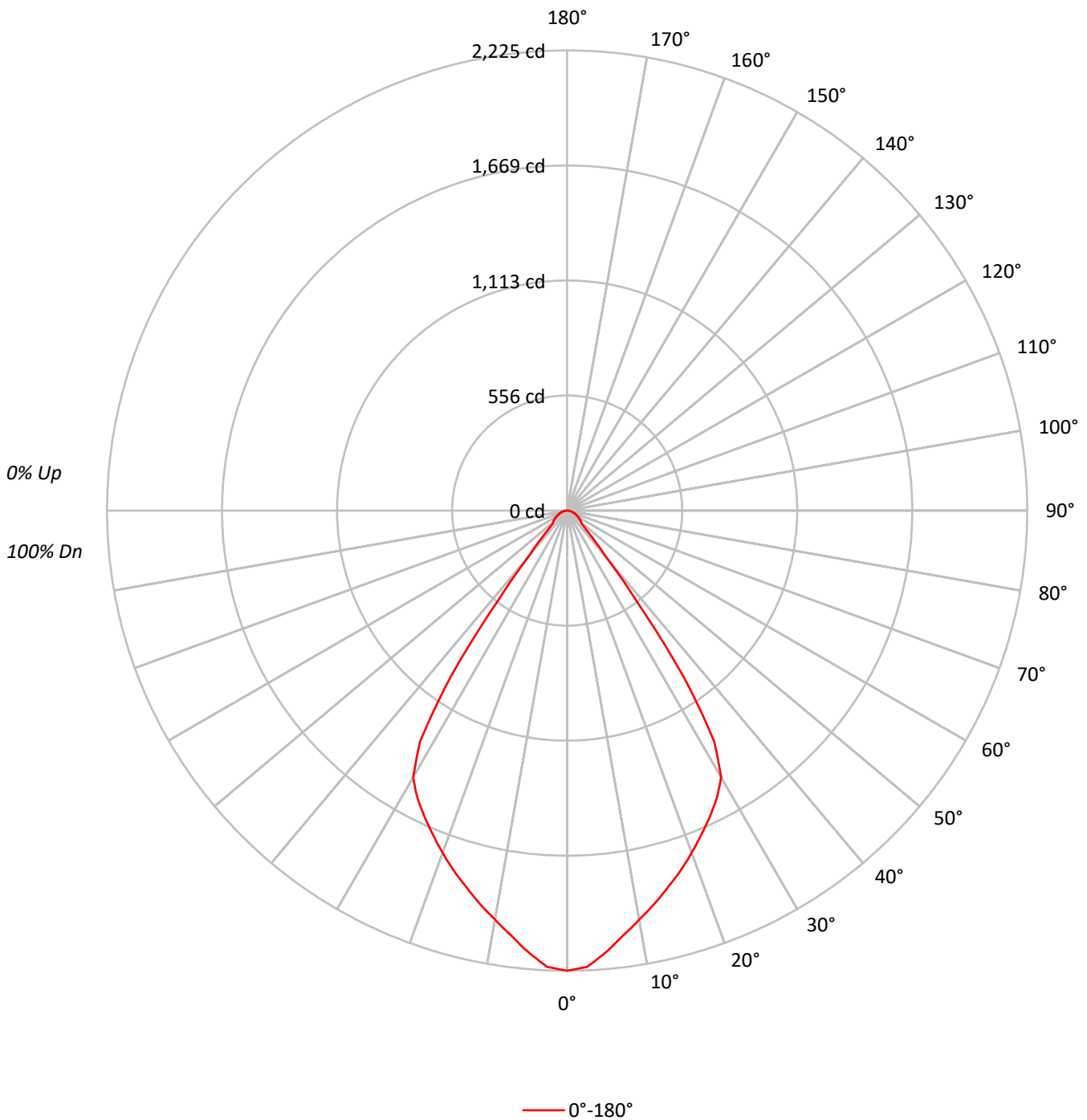
Lumens per Lamp: N/A
Luminaire Lumens: 2320.0 lumens
Efficiency: N/A
Efficacy: 61.9 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 0.98
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
Input Voltage (V): 120
Input Current (Ain): 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°	10977
5°	10620
10°	10064
15°	9627
20°	9245
25°	8884
30°	8484
35°	5943
40°	1870
45°	906
50°	676
55°	652
60°	608
65°	563
70°	524
75°	490
80°	460
85°	425

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 906 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.3	8.6
10°-20°	530.9	22.9
20°-30°	750.9	32.4
30°-40°	571.8	24.6
40°-50°	115.0	5.0
50°-60°	67.4	2.9
60°-70°	48.0	2.1
70°-80°	27.3	1.2
80°-90°	8.4	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°	1482.1	63.9
0°-40°	2053.9	88.5
0°-60°	2236.3	96.4
0°-90°	2320.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2320.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2225	
5°	2144	200
15°	1885	531
25°	1632	751
35°	987	572
45°	130	115
55°	76	67
65°	48	48
75°	26	27
85°	8	8
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2224.9
2.5°	2208.3
5°	2144.3
7.5°	2072.4
10°	2008.9
12.5°	1947.6
15°	1884.8
17.5°	1824.8
20°	1760.8
22.5°	1696.0
25°	1632.0
27.5°	1567.3
30°	1489.1
32.5°	1323.6
35°	986.7
37.5°	545.5
40°	290.3
42.5°	192.0
45°	129.9
47.5°	93.6
50°	88.1
52.5°	82.6
55°	75.8
57.5°	68.3
60°	61.6
62.5°	54.5
65°	48.2
67.5°	42.3
70°	36.3
72.5°	30.8
75°	25.7
77.5°	20.9
80°	16.2
82.5°	11.8
85°	7.5
87.5°	3.6
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	5.29	6.34	5.66	6.66	6.97	5.29	6.34	5.66	6.66	6.97
	3H	6.86	7.79	7.24	8.12	8.49	6.86	7.79	7.24	8.12	8.49
	4H	7.45	8.31	7.86	8.67	9.05	7.45	8.31	7.86	8.67	9.05
	6H	7.91	8.69	8.32	9.07	9.47	7.91	8.69	8.32	9.07	9.47
	8H	8.06	8.80	8.49	9.20	9.60	8.06	8.80	8.49	9.20	9.60
	12H	8.16	8.87	8.59	9.25	9.68	8.16	8.87	8.59	9.25	9.68
4H	2H	5.76	6.62	6.16	6.97	7.36	5.76	6.62	6.16	6.97	7.36
	3H	7.53	8.24	7.95	8.65	9.05	7.53	8.24	7.95	8.65	9.05
	4H	8.25	8.88	8.69	9.30	9.75	8.25	8.88	8.69	9.30	9.75
	6H	8.84	9.38	9.30	9.83	10.30	8.84	9.38	9.30	9.83	10.30
	8H	9.04	9.54	9.51	9.99	10.46	9.04	9.54	9.51	9.99	10.46
	12H	9.18	9.62	9.67	10.10	10.58	9.18	9.62	9.67	10.10	10.58
8H	4H	8.47	8.97	8.94	9.42	9.90	8.47	8.97	8.94	9.42	9.90
	6H	9.19	9.60	9.70	10.10	10.58	9.19	9.60	9.70	10.10	10.58
	8H	9.48	9.84	10.01	10.36	10.86	9.48	9.84	10.01	10.36	10.86
	12H	9.72	10.03	10.24	10.52	11.10	9.72	10.03	10.24	10.52	11.10
12H	4H	8.47	8.91	8.96	9.40	9.87	8.47	8.91	8.96	9.40	9.87
	6H	9.23	9.59	9.76	10.11	10.61	9.23	9.59	9.76	10.11	10.61
	8H	9.58	9.89	10.10	10.39	10.96	9.58	9.89	10.10	10.39	10.96