

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: P866510

Luminaire Tested: PRLX-2004-M-930-55L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866510
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-930-55L-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

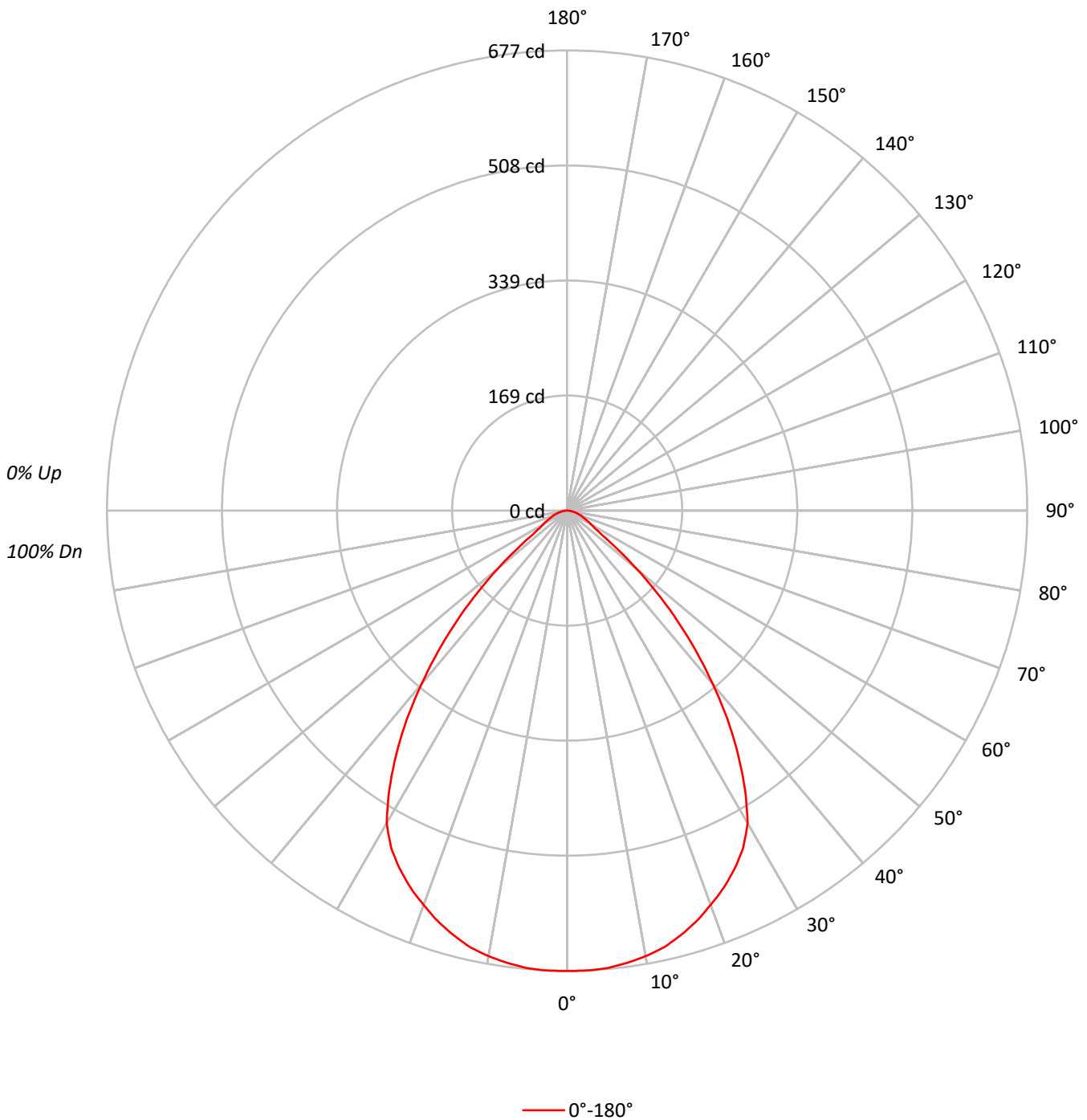
Lumens per Lamp: N/A
Luminaire Lumens: 1076.1 lumens
Efficiency: N/A
Efficacy: 22.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.14
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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°	5388
5°	5397
10°	5377
15°	5326
20°	5226
25°	5111
30°	4878
35°	4262
40°	3464
45°	2584
50°	1666
55°	852
60°	652
65°	552
70°	509
75°	449
80°	403
85°	402

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2584 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.2	6.0
10°-20°	182.1	16.9
20°-30°	267.1	24.8
30°-40°	271.7	25.3
40°-50°	176.6	16.4
50°-60°	64.5	6.0
60°-70°	29.8	2.8
70°-80°	15.6	1.5
80°-90°	4.4	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°	513.3	47.7
0°-40°	785.1	73.0
0°-60°	1026.2	95.4
0°-90°	1076.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1076.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	677	
5°	676	64
15°	647	182
25°	582	267
35°	439	272
45°	230	177
55°	61	64
65°	29	30
75°	15	16
85°	4	4
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	677.3
2.5°	677.3
5°	675.8
7.5°	671.4
10°	665.6
12.5°	658.3
15°	646.6
17.5°	633.4
20°	617.3
22.5°	601.2
25°	582.2
27.5°	560.3
30°	531.0
32.5°	487.1
35°	438.8
37.5°	387.6
40°	333.5
42.5°	280.9
45°	229.7
47.5°	178.5
50°	134.6
52.5°	93.6
55°	61.4
57.5°	48.3
60°	41.0
62.5°	35.1
65°	29.3
67.5°	24.9
70°	21.9
72.5°	17.6
75°	14.6
77.5°	11.7
80°	8.8
82.5°	5.9
85°	4.4
87.5°	1.5
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	6.93	8.19	7.30	8.50	8.81	6.93	8.19	7.30	8.50	8.81
	3H	8.11	9.22	8.49	9.55	9.92	8.11	9.22	8.49	9.55	9.92
	4H	8.55	9.58	8.96	9.93	10.32	8.55	9.58	8.96	9.93	10.32
	6H	8.89	9.83	9.30	10.20	10.60	8.89	9.83	9.30	10.20	10.60
	8H	8.98	9.87	9.41	10.26	10.67	8.98	9.87	9.41	10.26	10.67
	12H	9.05	9.90	9.49	10.29	10.72	9.05	9.90	9.49	10.29	10.72
4H	2H	7.28	8.31	7.68	8.66	9.05	7.28	8.31	7.68	8.66	9.05
	3H	8.69	9.53	9.11	9.93	10.34	8.69	9.53	9.11	9.93	10.34
	4H	9.25	10.00	9.69	10.42	10.86	9.25	10.00	9.69	10.42	10.86
	6H	9.71	10.35	10.17	10.80	11.26	9.71	10.35	10.17	10.80	11.26
	8H	9.83	10.43	10.30	10.88	11.35	9.83	10.43	10.30	10.88	11.35
	12H	9.95	10.48	10.43	10.96	11.43	9.95	10.48	10.43	10.96	11.43
8H	4H	9.43	10.03	9.90	10.47	10.95	9.43	10.03	9.90	10.47	10.95
	6H	9.98	10.47	10.49	10.97	11.45	9.98	10.47	10.49	10.97	11.45
	8H	10.17	10.61	10.70	11.13	11.62	10.17	10.61	10.70	11.13	11.62
	12H	10.37	10.76	10.89	11.25	11.83	10.37	10.76	10.89	11.25	11.83
12H	4H	9.42	9.95	9.91	10.43	10.91	9.42	9.95	9.91	10.43	10.91
	6H	10.00	10.44	10.52	10.96	11.45	10.00	10.44	10.52	10.96	11.45
	8H	10.24	10.63	10.76	11.13	11.70	10.24	10.63	10.76	11.13	11.70