

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: P866422

Luminaire Tested: PRLX-2004-M-927-25L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866422
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-927-25L-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 3
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

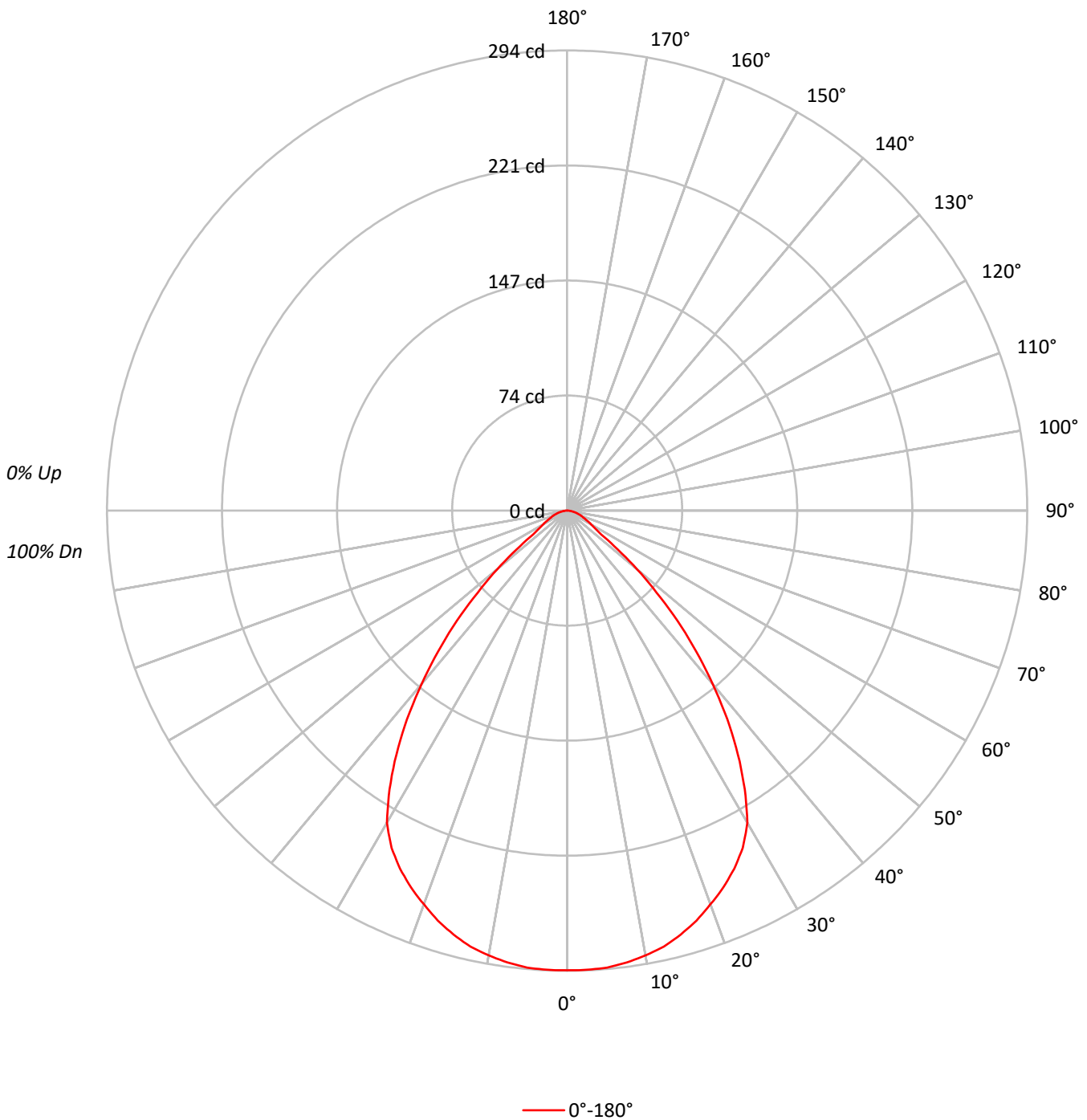
Lumens per Lamp: N/A
Luminaire Lumens: 466.6 lumens
Efficiency: N/A
Efficacy: 21.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.14
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 21.7
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°	2337
5°	2341
10°	2331
15°	2309
20°	2266
25°	2216
30°	2116
35°	1848
40°	1502
45°	1121
50°	723
55°	369
60°	283
65°	239
70°	221
75°	194
80°	174
85°	173

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1121 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.8	6.0
10°-20°	79.0	16.9
20°-30°	115.8	24.8
30°-40°	117.8	25.3
40°-50°	76.6	16.4
50°-60°	28.0	6.0
60°-70°	12.9	2.8
70°-80°	6.8	1.4
80°-90°	1.9	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
0°-30°	222.6	47.7
0°-40°	340.4	73.0
0°-60°	445.0	95.4
0°-90°	466.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	466.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	294	
5°	293	28
15°	280	79
25°	252	116
35°	190	118
45°	100	77
55°	27	28
65°	13	13
75°	6	7
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	293.7
2.5°	293.7
5°	293.1
7.5°	291.2
10°	288.6
12.5°	285.4
15°	280.4
17.5°	274.7
20°	267.7
22.5°	260.7
25°	252.5
27.5°	242.9
30°	230.3
32.5°	211.2
35°	190.3
37.5°	168.1
40°	144.6
42.5°	121.8
45°	99.6
47.5°	77.4
50°	58.4
52.5°	40.6
55°	26.6
57.5°	20.9
60°	17.8
62.5°	15.2
65°	12.7
67.5°	10.8
70°	9.5
72.5°	7.6
75°	6.3
77.5°	5.1
80°	3.8
82.5°	2.5
85°	1.9
87.5°	0.6
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	4.02	5.27	4.38	5.58	5.90	4.02	5.27	4.38	5.58	5.90
	3H	5.20	6.31	5.58	6.64	7.01	5.20	6.31	5.58	6.64	7.01
	4H	5.64	6.67	6.04	7.02	7.41	5.64	6.67	6.04	7.02	7.41
	6H	5.98	6.92	6.39	7.29	7.69	5.98	6.92	6.39	7.29	7.69
	8H	6.06	6.96	6.50	7.35	7.75	6.06	6.96	6.50	7.35	7.75
	12H	6.13	6.99	6.57	7.37	7.80	6.13	6.99	6.57	7.37	7.80
4H	2H	4.37	5.40	4.77	5.75	6.13	4.37	5.40	4.77	5.75	6.13
	3H	5.78	6.62	6.20	7.02	7.43	5.78	6.62	6.20	7.02	7.43
	4H	6.34	7.08	6.77	7.51	7.95	6.34	7.08	6.77	7.51	7.95
	6H	6.79	7.44	7.26	7.88	8.35	6.79	7.44	7.26	7.88	8.35
	8H	6.92	7.52	7.39	7.96	8.44	6.92	7.52	7.39	7.96	8.44
	12H	7.03	7.55	7.51	8.04	8.51	7.03	7.55	7.51	8.04	8.51
8H	4H	6.51	7.11	6.98	7.56	8.03	6.51	7.11	6.98	7.56	8.03
	6H	7.07	7.56	7.58	8.06	8.54	7.07	7.56	7.58	8.06	8.54
	8H	7.25	7.69	7.78	8.21	8.70	7.25	7.69	7.78	8.21	8.70
	12H	7.44	7.83	7.96	8.33	8.90	7.44	7.83	7.96	8.33	8.90
12H	4H	6.51	7.04	6.99	7.52	7.99	6.51	7.04	6.99	7.52	7.99
	6H	7.09	7.53	7.61	8.04	8.54	7.09	7.53	7.61	8.04	8.54
	8H	7.32	7.71	7.83	8.20	8.78	7.32	7.71	7.83	8.20	8.78