

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: P866426

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866426
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: Pentalux
Catalog Number: PRLX-2004-M-927-25L-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 3
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

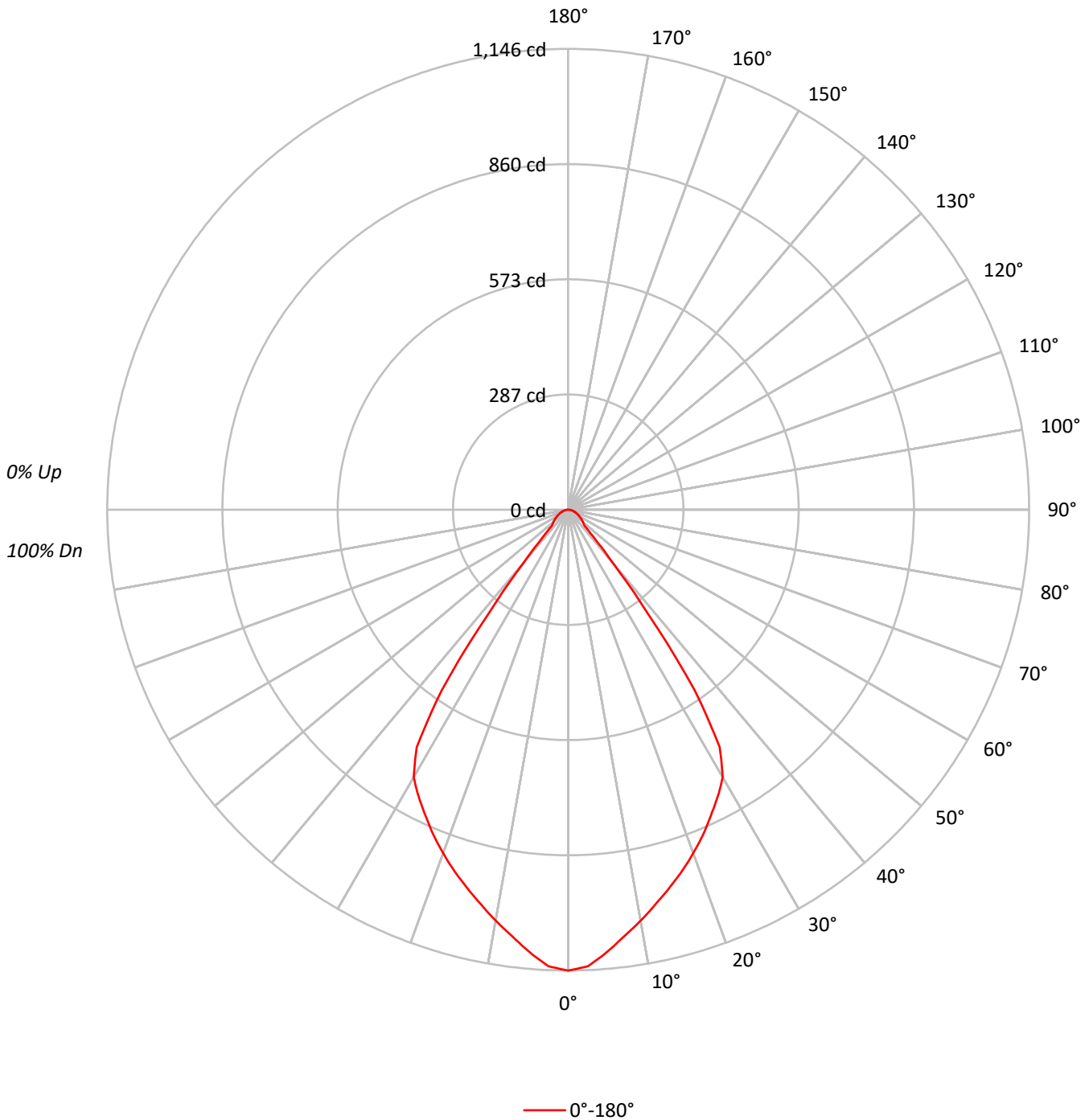
Lumens per Lamp: N/A
Luminaire Lumens: 1214.3 lumens
Efficiency: N/A
Efficacy: 56.0 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	9119
5°	8820
10°	8384
15°	8014
20°	7696
25°	7367
30°	7057
35°	5323
40°	1772
45°	657
50°	597
55°	545
60°	495
65°	454
70°	428
75°	409
80°	376
85°	347

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 657 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.3	8.5
10°-20°	274.1	22.6
20°-30°	386.7	31.8
30°-40°	312.5	25.7
40°-50°	59.8	4.9
50°-60°	35.3	2.9
60°-70°	24.1	2.0
70°-80°	14.1	1.2
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°	764.0	62.9
0°-40°	1076.6	88.7
0°-60°	1171.7	96.5
0°-90°	1214.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1214.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1146	
5°	1104	103
15°	973	274
25°	839	387
35°	548	313
45°	58	60
55°	39	35
65°	24	24
75°	13	14
85°	4	4
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1146.2
2.5°	1136.1
5°	1104.4
7.5°	1069.5
10°	1037.8
12.5°	1004.8
15°	973.0
17.5°	942.0
20°	909.0
22.5°	875.4
25°	839.2
27.5°	805.0
30°	768.2
32.5°	700.3
35°	548.1
37.5°	323.5
40°	170.6
42.5°	95.8
45°	58.4
47.5°	51.4
50°	48.2
52.5°	43.8
55°	39.3
57.5°	35.5
60°	31.1
62.5°	27.9
65°	24.1
67.5°	20.9
70°	18.4
72.5°	15.9
75°	13.3
77.5°	10.8
80°	8.2
82.5°	6.3
85°	3.8
87.5°	1.9
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	4.64	5.69	5.01	6.00	6.32	4.64	5.69	5.01	6.00	6.32
	3H	6.10	7.03	6.49	7.36	7.73	6.10	7.03	6.49	7.36	7.73
	4H	6.71	7.57	7.12	7.93	8.31	6.71	7.57	7.12	7.93	8.31
	6H	7.17	7.96	7.59	8.33	8.73	7.17	7.96	7.59	8.33	8.73
	8H	7.33	8.07	7.77	8.47	8.88	7.33	8.07	7.77	8.47	8.88
	12H	7.44	8.14	7.87	8.53	8.96	7.44	8.14	7.87	8.53	8.96
4H	2H	5.06	5.92	5.47	6.28	6.66	5.06	5.92	5.47	6.28	6.66
	3H	6.76	7.47	7.18	7.88	8.28	6.76	7.47	7.18	7.88	8.28
	4H	7.50	8.13	7.94	8.55	9.00	7.50	8.13	7.94	8.55	9.00
	6H	8.09	8.63	8.56	9.08	9.55	8.09	8.63	8.56	9.08	9.55
	8H	8.30	8.81	8.78	9.26	9.73	8.30	8.81	8.78	9.26	9.73
	12H	8.45	8.89	8.94	9.38	9.85	8.45	8.89	8.94	9.38	9.85
8H	4H	7.73	8.23	8.20	8.68	9.15	7.73	8.23	8.20	8.68	9.15
	6H	8.45	8.85	8.96	9.35	9.84	8.45	8.85	8.96	9.35	9.84
	8H	8.76	9.11	9.29	9.64	10.13	8.76	9.11	9.29	9.64	10.13
	12H	9.00	9.31	9.52	9.81	10.38	9.00	9.31	9.52	9.81	10.38
12H	4H	7.73	8.16	8.22	8.65	9.13	7.73	8.16	8.22	8.65	9.13
	6H	8.49	8.85	9.02	9.37	9.87	8.49	8.85	9.02	9.37	9.87
	8H	8.86	9.17	9.38	9.67	10.25	8.86	9.17	9.38	9.67	10.25