

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: P865746

Luminaire Tested: PRLX-2004-S-927-10L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865746
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-S-927-10L-L-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS,
BELL WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

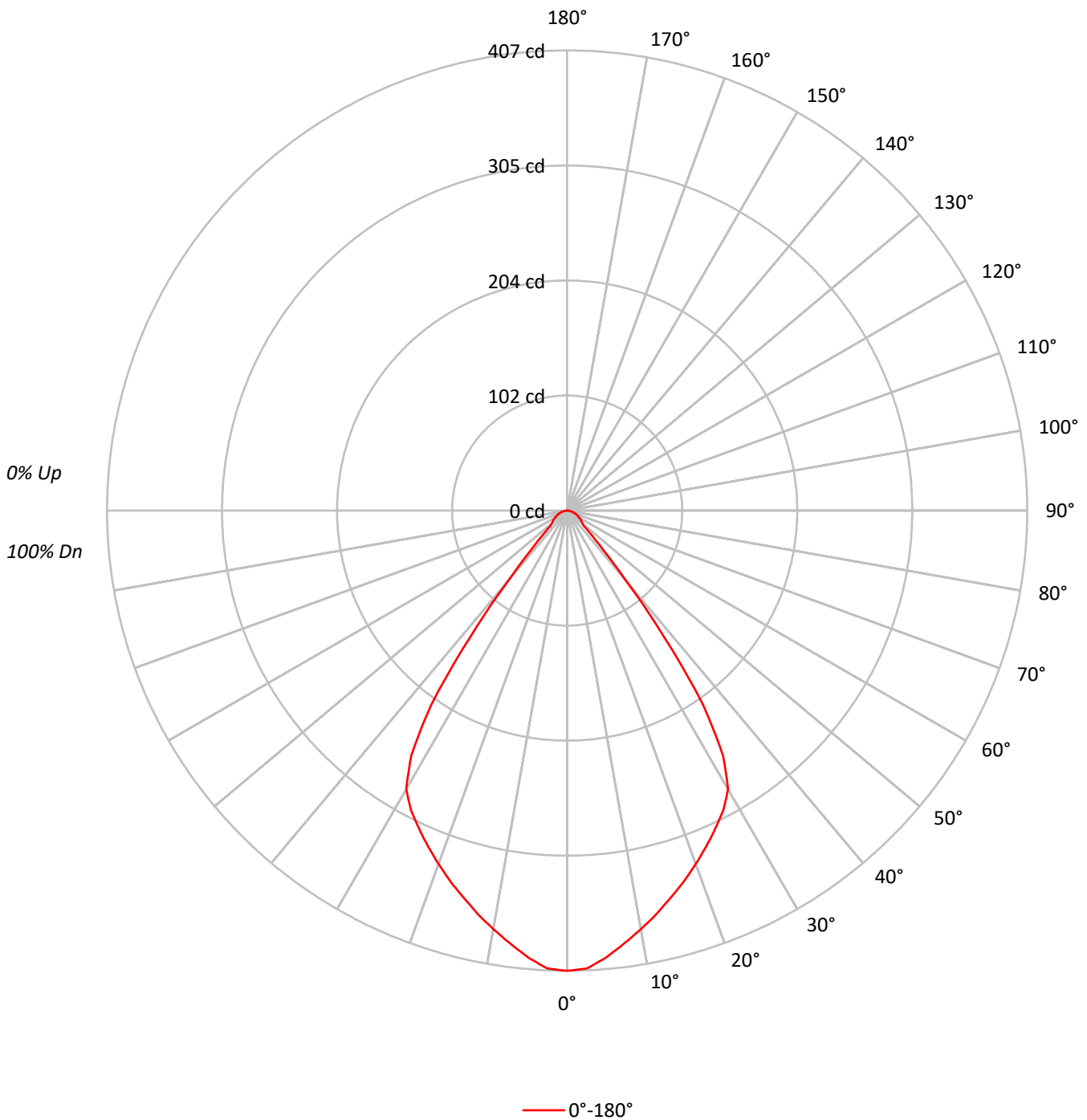
Lumens per Lamp: N/A
Luminaire Lumens: 459.2 lumens
Efficiency: N/A
Efficacy: 43.7 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.02
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 10.5
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: 0.5 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	99	100	98	96	96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84
3	100	93	88	83	98	92	87	82	89	85	81	86	83	80	84	81	79	77
4	95	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	71
5	89	80	74	69	87	79	73	68	77	72	68	75	71	67	74	70	67	65
6	84	74	68	63	83	74	67	63	72	67	63	71	66	62	69	65	62	60
7	80	70	63	58	78	69	63	58	67	62	58	66	61	58	65	61	57	56
8	75	65	59	54	74	64	58	54	63	58	54	62	57	53	61	57	53	52
9	71	61	55	50	70	60	54	50	59	54	50	59	53	50	58	53	50	48
10	68	57	51	47	67	57	51	47	56	50	47	55	50	47	54	50	46	45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6638
5°	6493
10°	6224
15°	5981
20°	5773
25°	5582
30°	5360
35°	4171
40°	1720
45°	683
50°	447
55°	432
60°	391
65°	370
70°	343
75°	353
80°	301
85°	299

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 683 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.2	8.1
10°-20°	99.8	21.7
20°-30°	142.8	31.1
30°-40°	121.4	26.4
40°-50°	27.6	6.0
50°-60°	13.3	2.9
60°-70°	9.7	2.1
70°-80°	5.6	1.2
80°-90°	1.7	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°	279.8	60.9
0°-40°	401.2	87.4
0°-60°	442.1	96.3
0°-90°	459.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	459.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	407	
5°	397	37
15°	354	100
25°	310	143
35°	210	121
45°	30	28
55°	15	13
65°	10	10
75°	6	6
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	407.0
2.5°	405.4
5°	396.6
7.5°	386.2
10°	375.8
12.5°	365.4
15°	354.2
17.5°	343.8
20°	332.6
22.5°	321.4
25°	310.2
27.5°	299.0
30°	284.6
32.5°	256.7
35°	209.5
37.5°	140.7
40°	80.8
42.5°	47.2
45°	29.6
47.5°	20.0
50°	17.6
52.5°	16.0
55°	15.2
57.5°	13.6
60°	12.0
62.5°	11.2
65°	9.6
67.5°	8.8
70°	7.2
72.5°	6.4
75°	5.6
77.5°	4.0
80°	3.2
82.5°	2.4
85°	1.6
87.5°	0.8
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	3.83	4.90	4.20	5.21	5.53	3.83	4.90	4.20	5.21	5.53
	3H	5.47	6.42	5.86	6.75	7.12	5.47	6.42	5.86	6.75	7.12
	4H	6.15	7.03	6.56	7.38	7.77	6.15	7.03	6.56	7.38	7.77
	6H	6.56	7.36	6.98	7.74	8.13	6.56	7.36	6.98	7.74	8.13
	8H	6.71	7.47	7.15	7.86	8.27	6.71	7.47	7.15	7.86	8.27
	12H	6.82	7.54	7.26	7.93	8.36	6.82	7.54	7.26	7.93	8.36
4H	2H	4.31	5.18	4.71	5.54	5.92	4.31	5.18	4.71	5.54	5.92
	3H	6.15	6.87	6.57	7.28	7.68	6.15	6.87	6.57	7.28	7.68
	4H	6.97	7.61	7.41	8.04	8.48	6.97	7.61	7.41	8.04	8.48
	6H	7.50	8.05	7.97	8.50	8.97	7.50	8.05	7.97	8.50	8.97
	8H	7.70	8.21	8.18	8.66	9.14	7.70	8.21	8.18	8.66	9.14
	12H	7.86	8.30	8.35	8.79	9.27	7.86	8.30	8.35	8.79	9.27
8H	4H	7.20	7.71	7.67	8.16	8.63	7.20	7.71	7.67	8.16	8.63
	6H	7.86	8.26	8.36	8.77	9.25	7.86	8.26	8.36	8.77	9.25
	8H	8.14	8.51	8.67	9.03	9.52	8.14	8.51	8.67	9.03	9.52
	12H	8.40	8.72	8.92	9.21	9.79	8.40	8.72	8.92	9.21	9.79
12H	4H	7.19	7.64	7.68	8.13	8.60	7.19	7.64	7.68	8.13	8.60
	6H	7.89	8.26	8.42	8.78	9.27	7.89	8.26	8.42	8.78	9.27
	8H	8.24	8.56	8.76	9.05	9.63	8.24	8.56	8.76	9.05	9.63