

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: P865842

Luminaire Tested: PRLX-2004-S-935-20L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865842
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-935-20L-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 4
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

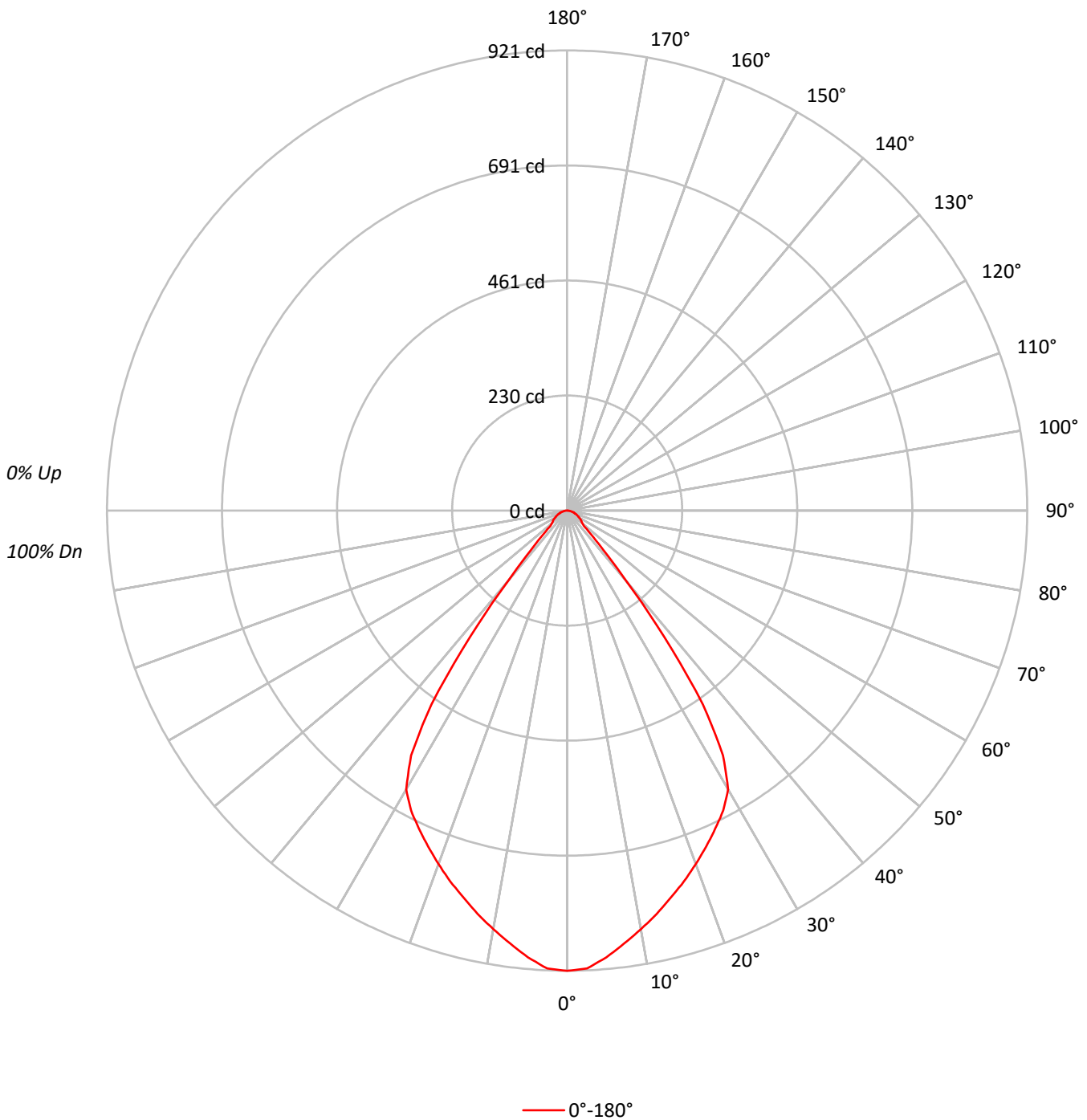
Lumens per Lamp: N/A
Luminaire Lumens: 1039.1 lumens
Efficiency: N/A
Efficacy: 47.7 lumens/watt
Spacing Criteria (0/90/45): 1.07 / 1.07 / 1.02
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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°	15023
5°	14694
10°	14086
15°	13535
20°	13066
25°	12635
30°	12132
35°	9440
40°	3892
45°	1545
50°	1010
55°	978
60°	884
65°	837
70°	777
75°	800
80°	676
85°	674

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1545 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.2	8.1
10°-20°	226.0	21.7
20°-30°	323.1	31.1
30°-40°	274.7	26.4
40°-50°	62.5	6.0
50°-60°	30.1	2.9
60°-70°	21.9	2.1
70°-80°	12.6	1.2
80°-90°	3.9	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°	633.2	60.9
0°-40°	907.9	87.4
0°-60°	1000.6	96.3
0°-90°	1039.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1039.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	921	
5°	898	84
15°	802	226
25°	702	323
35°	474	275
45°	67	63
55°	34	30
65°	22	22
75°	13	13
85°	4	4
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	921.1
2.5°	917.4
5°	897.5
7.5°	874.0
10°	850.5
12.5°	827.0
15°	801.6
17.5°	778.1
20°	752.8
22.5°	727.4
25°	702.1
27.5°	676.8
30°	644.2
32.5°	580.9
35°	474.1
37.5°	318.5
40°	182.8
42.5°	106.8
45°	67.0
47.5°	45.2
50°	39.8
52.5°	36.2
55°	34.4
57.5°	30.8
60°	27.1
62.5°	25.3
65°	21.7
67.5°	19.9
70°	16.3
72.5°	14.5
75°	12.7
77.5°	9.0
80°	7.2
82.5°	5.4
85°	3.6
87.5°	1.8
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	6.67	7.74	7.04	8.05	8.37	6.67	7.74	7.04	8.05	8.37
	3H	8.31	9.26	8.70	9.59	9.96	8.31	9.26	8.70	9.59	9.96
	4H	8.99	9.87	9.40	10.22	10.61	8.99	9.87	9.40	10.22	10.61
	6H	9.40	10.20	9.81	10.57	10.97	9.40	10.20	9.81	10.57	10.97
	8H	9.55	10.30	9.98	10.69	11.10	9.55	10.30	9.98	10.69	11.10
	12H	9.66	10.38	10.09	10.76	11.19	9.66	10.38	10.09	10.76	11.19
4H	2H	7.15	8.02	7.55	8.37	8.76	7.15	8.02	7.55	8.37	8.76
	3H	8.99	9.71	9.41	10.12	10.52	8.99	9.71	9.41	10.12	10.52
	4H	9.82	10.46	10.25	10.88	11.33	9.82	10.46	10.25	10.88	11.33
	6H	10.34	10.88	10.80	11.33	11.81	10.34	10.88	10.80	11.33	11.81
	8H	10.53	11.04	11.01	11.49	11.97	10.53	11.04	11.01	11.49	11.97
	12H	10.69	11.13	11.18	11.62	12.10	10.69	11.13	11.18	11.62	12.10
8H	4H	10.04	10.55	10.51	11.00	11.47	10.04	10.55	10.51	11.00	11.47
	6H	10.69	11.10	11.20	11.60	12.08	10.69	11.10	11.20	11.60	12.08
	8H	10.97	11.34	11.50	11.86	12.35	10.97	11.34	11.50	11.86	12.35
	12H	11.23	11.54	11.75	12.04	12.62	11.23	11.54	11.75	12.04	12.62
12H	4H	10.03	10.48	10.52	10.97	11.44	10.03	10.48	10.52	10.97	11.44
	6H	10.72	11.09	11.25	11.61	12.10	10.72	11.09	11.25	11.61	12.10
	8H	11.07	11.38	11.59	11.88	12.46	11.07	11.38	11.59	11.88	12.46