

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: P865834

Luminaire Tested: PRLX-2004-S-935-15L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865834
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: Pentalux
Catalog Number: PRLX-2004-S-935-15L-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 3
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

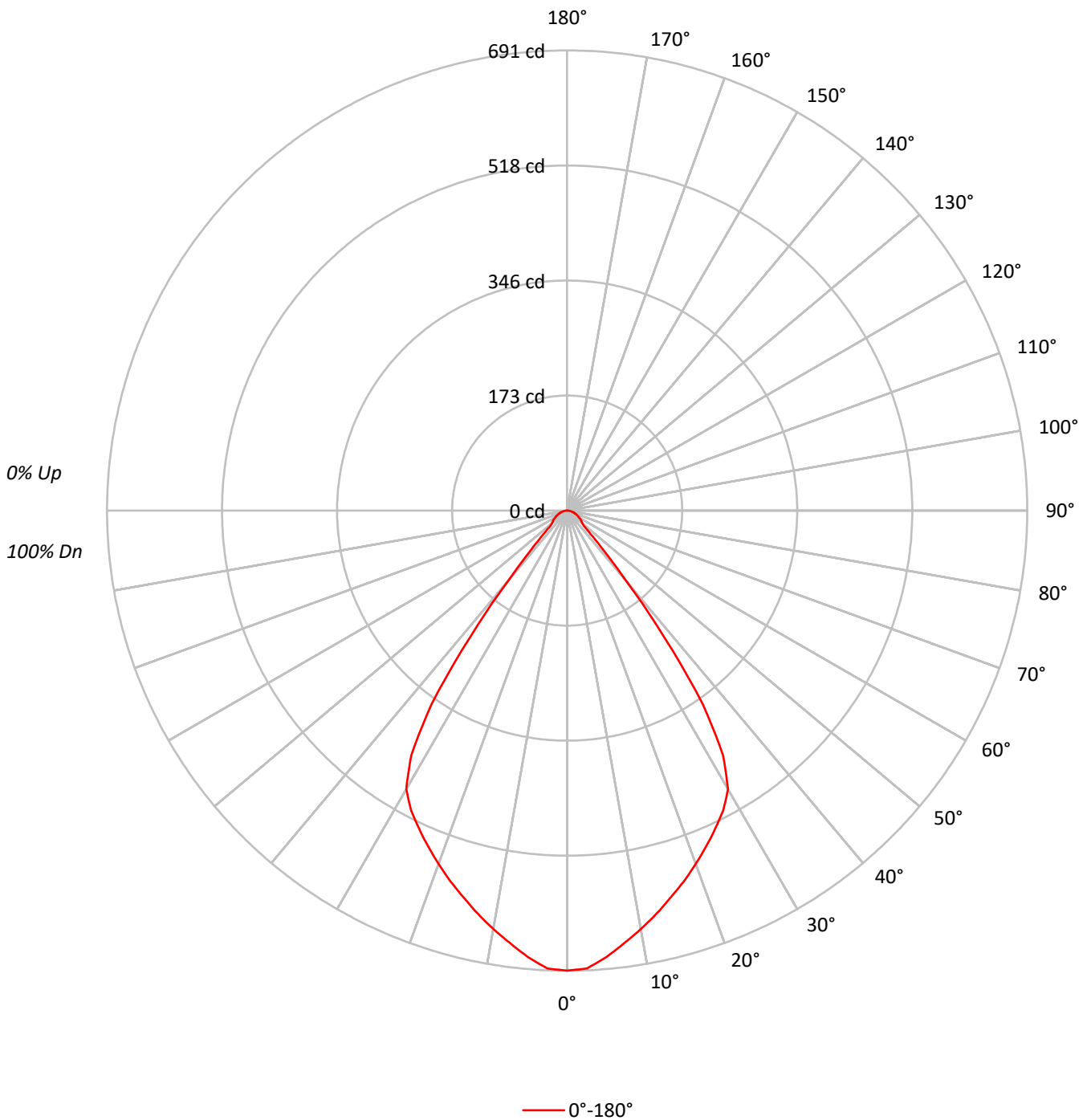
Lumens per Lamp: N/A
Luminaire Lumens: 779.4 lumens
Efficiency: N/A
Efficacy: 50.0 lumens/watt
Spacing Criteria (0/90/45): 1.07 / 1.07 / 1.02
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 15.6
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

TEST NUMBER: P865834

CATALOG NUMBER: PRLX-2004-S-935-15L-L-U-S-X-X-GREY-X

Luminous Intensity Polar Plot





TEST NUMBER: P865834

CATALOG NUMBER: PRLX-2004-S-935-15L-L-U-S-X-X-GREY-X

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°	11267
5°	11020
10°	10565
15°	10152
20°	9800
25°	9477
30°	9098
35°	7080
40°	2919
45°	1158
50°	759
55°	734
60°	665
65°	629
70°	582
75°	599
80°	507
85°	505

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1158 cd/sqm



TEST NUMBER: P865834

CATALOG NUMBER: PRLX-2004-S-935-15L-L-U-S-X-X-GREY-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.1	8.1
10°-20°	169.5	21.7
20°-30°	242.4	31.1
30°-40°	206.0	26.4
40°-50°	46.9	6.0
50°-60°	22.6	2.9
60°-70°	16.5	2.1
70°-80°	9.5	1.2
80°-90°	3.0	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°	474.9	60.9
0°-40°	681.0	87.4
0°-60°	750.4	96.3
0°-90°	779.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	779.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	691	
5°	673	63
15°	601	169
25°	527	242
35°	356	206
45°	50	47
55°	26	23
65°	16	16
75°	10	9
85°	3	3
90°	0	

TEST NUMBER: P865834

CATALOG NUMBER: PRLX-2004-S-935-15L-L-U-S-X-X-GREY-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	690.8
2.5°	688.1
5°	673.1
7.5°	655.5
10°	637.9
12.5°	620.2
15°	601.2
17.5°	583.6
20°	564.6
22.5°	545.6
25°	526.6
27.5°	507.6
30°	483.1
32.5°	435.6
35°	355.6
37.5°	238.9
40°	137.1
42.5°	80.1
45°	50.2
47.5°	33.9
50°	29.9
52.5°	27.1
55°	25.8
57.5°	23.1
60°	20.4
62.5°	19.0
65°	16.3
67.5°	14.9
70°	12.2
72.5°	10.9
75°	9.5
77.5°	6.8
80°	5.4
82.5°	4.1
85°	2.7
87.5°	1.4
90°	0.0



TEST NUMBER: P865834
 CATALOG NUMBER: PRLX-2004-S-935-15L-L-U-S-X-X-GREY-X

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	5.68	6.74	6.04	7.05	7.37	5.68	6.74	6.04	7.05	7.37
	3H	7.31	8.25	7.69	8.58	8.95	7.31	8.25	7.69	8.58	8.95
	4H	7.99	8.86	8.40	9.22	9.61	7.99	8.86	8.40	9.22	9.61
	6H	8.40	9.20	8.81	9.57	9.97	8.40	9.20	8.81	9.57	9.97
	8H	8.55	9.30	8.99	9.70	10.11	8.55	9.30	8.99	9.70	10.11
	12H	8.66	9.38	9.10	9.77	10.20	8.66	9.38	9.10	9.77	10.20
4H	2H	6.15	7.03	6.56	7.38	7.77	6.15	7.03	6.56	7.38	7.77
	3H	7.99	8.71	8.40	9.11	9.52	7.99	8.71	8.40	9.11	9.52
	4H	8.81	9.45	9.25	9.87	10.32	8.81	9.45	9.25	9.87	10.32
	6H	9.34	9.89	9.81	10.34	10.81	9.34	9.89	9.81	10.34	10.81
	8H	9.54	10.05	10.01	10.50	10.97	9.54	10.05	10.01	10.50	10.97
	12H	9.70	10.14	10.19	10.63	11.11	9.70	10.14	10.19	10.63	11.11
8H	4H	9.03	9.55	9.51	10.00	10.47	9.03	9.55	9.51	10.00	10.47
	6H	9.69	10.10	10.20	10.60	11.09	9.69	10.10	10.20	10.60	11.09
	8H	9.98	10.34	10.51	10.87	11.36	9.98	10.34	10.51	10.87	11.36
	12H	10.24	10.55	10.76	11.05	11.63	10.24	10.55	10.76	11.05	11.63
12H	4H	9.03	9.48	9.52	9.96	10.44	9.03	9.48	9.52	9.96	10.44
	6H	9.73	10.09	10.26	10.61	11.11	9.73	10.09	10.26	10.61	11.11
	8H	10.08	10.39	10.60	10.89	11.47	10.08	10.39	10.60	10.89	11.47