

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: P867334

Luminaire Tested: PRLX-2004-L-935-32L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867334
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-86)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2004-L-935-32L-L-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
BELL WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

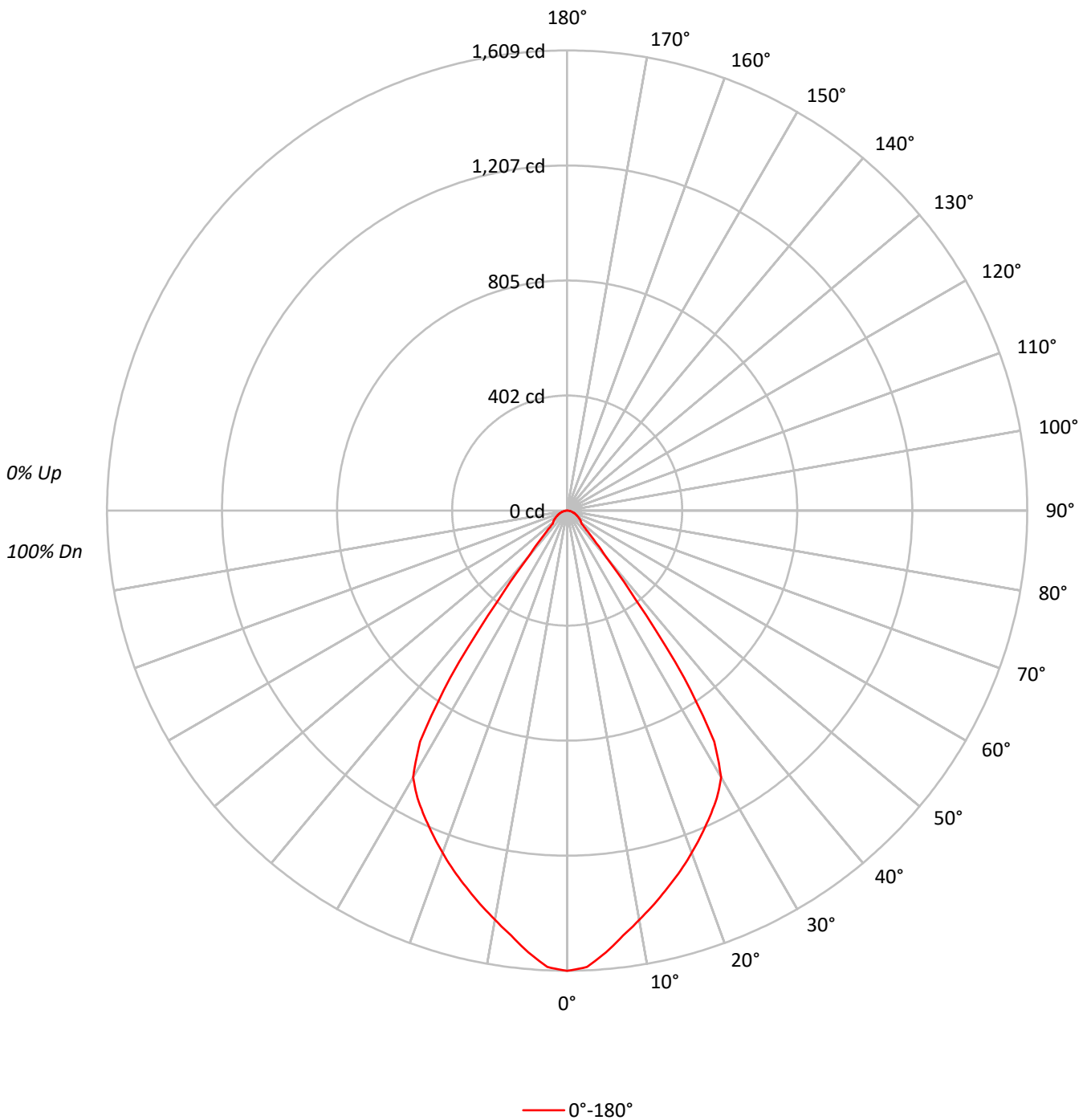
Lumens per Lamp: N/A
Luminaire Lumens: 1678.1 lumens
Efficiency: N/A
Efficacy: 64.3 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 0.98
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 26.1
Input Voltage (V): 120
Input Current (Ain): 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	108	105	103	103	101	100	100	98	97	96	95	94	92
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	101	94	88	84	99	92	87	83	89	85	82	87	83	80	85	82	79	77
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	79	76	73	71
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66
6	85	75	69	64	83	74	68	64	73	68	64	71	67	63	70	66	63	61
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53
9	72	62	56	51	71	62	55	51	61	55	51	60	55	51	59	54	51	49
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	56	51	48	46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7940
5°	7682
10°	7279
15°	6964
20°	6687
25°	6426
30°	6136
35°	4299
40°	1353
45°	656
50°	489
55°	472
60°	440
65°	407
70°	379
75°	355
80°	332
85°	306

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 656 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.9	8.6
10°-20°	384.0	22.9
20°-30°	543.1	32.4
30°-40°	413.6	24.6
40°-50°	83.1	5.0
50°-60°	48.8	2.9
60°-70°	34.7	2.1
70°-80°	19.8	1.2
80°-90°	6.1	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°	1072.0	63.9
0°-40°	1485.6	88.5
0°-60°	1617.5	96.4
0°-90°	1678.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1678.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1609	
5°	1551	145
15°	1363	384
25°	1180	543
35°	714	414
45°	94	83
55°	55	49
65°	35	35
75°	19	20
85°	5	6
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1609.3
2.5°	1597.3
5°	1551.0
7.5°	1499.0
10°	1453.0
12.5°	1408.7
15°	1363.3
17.5°	1319.9
20°	1273.6
22.5°	1226.8
25°	1180.5
27.5°	1133.6
30°	1077.1
32.5°	957.4
35°	713.7
37.5°	394.5
40°	210.0
42.5°	138.8
45°	94.0
47.5°	67.7
50°	63.7
52.5°	59.7
55°	54.9
57.5°	49.4
60°	44.6
62.5°	39.4
65°	34.9
67.5°	30.6
70°	26.3
72.5°	22.3
75°	18.6
77.5°	15.1
80°	11.7
82.5°	8.6
85°	5.4
87.5°	2.6
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	4.17	5.22	4.53	5.53	5.85	4.17	5.22	4.53	5.53	5.85
	3H	5.73	6.66	6.12	7.00	7.36	5.73	6.66	6.12	7.00	7.36
	4H	6.33	7.19	6.73	7.54	7.93	6.33	7.19	6.73	7.54	7.93
	6H	6.78	7.57	7.20	7.94	8.34	6.78	7.57	7.20	7.94	8.34
	8H	6.94	7.68	7.37	8.07	8.48	6.94	7.68	7.37	8.07	8.48
	12H	7.04	7.75	7.47	8.13	8.56	7.04	7.75	7.47	8.13	8.56
4H	2H	4.63	5.50	5.04	5.85	6.24	4.63	5.50	5.04	5.85	6.24
	3H	6.41	7.12	6.83	7.52	7.93	6.41	7.12	6.83	7.52	7.93
	4H	7.13	7.76	7.56	8.18	8.63	7.13	7.76	7.56	8.18	8.63
	6H	7.71	8.25	8.18	8.70	9.17	7.71	8.25	8.18	8.70	9.17
	8H	7.91	8.42	8.39	8.87	9.34	7.91	8.42	8.39	8.87	9.34
	12H	8.06	8.50	8.55	8.98	9.46	8.06	8.50	8.55	8.98	9.46
8H	4H	7.35	7.85	7.82	8.30	8.78	7.35	7.85	7.82	8.30	8.78
	6H	8.07	8.47	8.58	8.97	9.46	8.07	8.47	8.58	8.97	9.46
	8H	8.36	8.72	8.89	9.24	9.73	8.36	8.72	8.89	9.24	9.73
	12H	8.60	8.91	9.12	9.40	9.98	8.60	8.91	9.12	9.40	9.98
12H	4H	7.35	7.79	7.84	8.27	8.75	7.35	7.79	7.84	8.27	8.75
	6H	8.11	8.47	8.64	8.99	9.48	8.11	8.47	8.64	8.99	9.48
	8H	8.46	8.77	8.98	9.27	9.84	8.46	8.77	8.98	9.27	9.84