

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: P865851

Luminaire Tested: PRLX-2004-S-935-25L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865851
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2004-S-935-25L-L-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

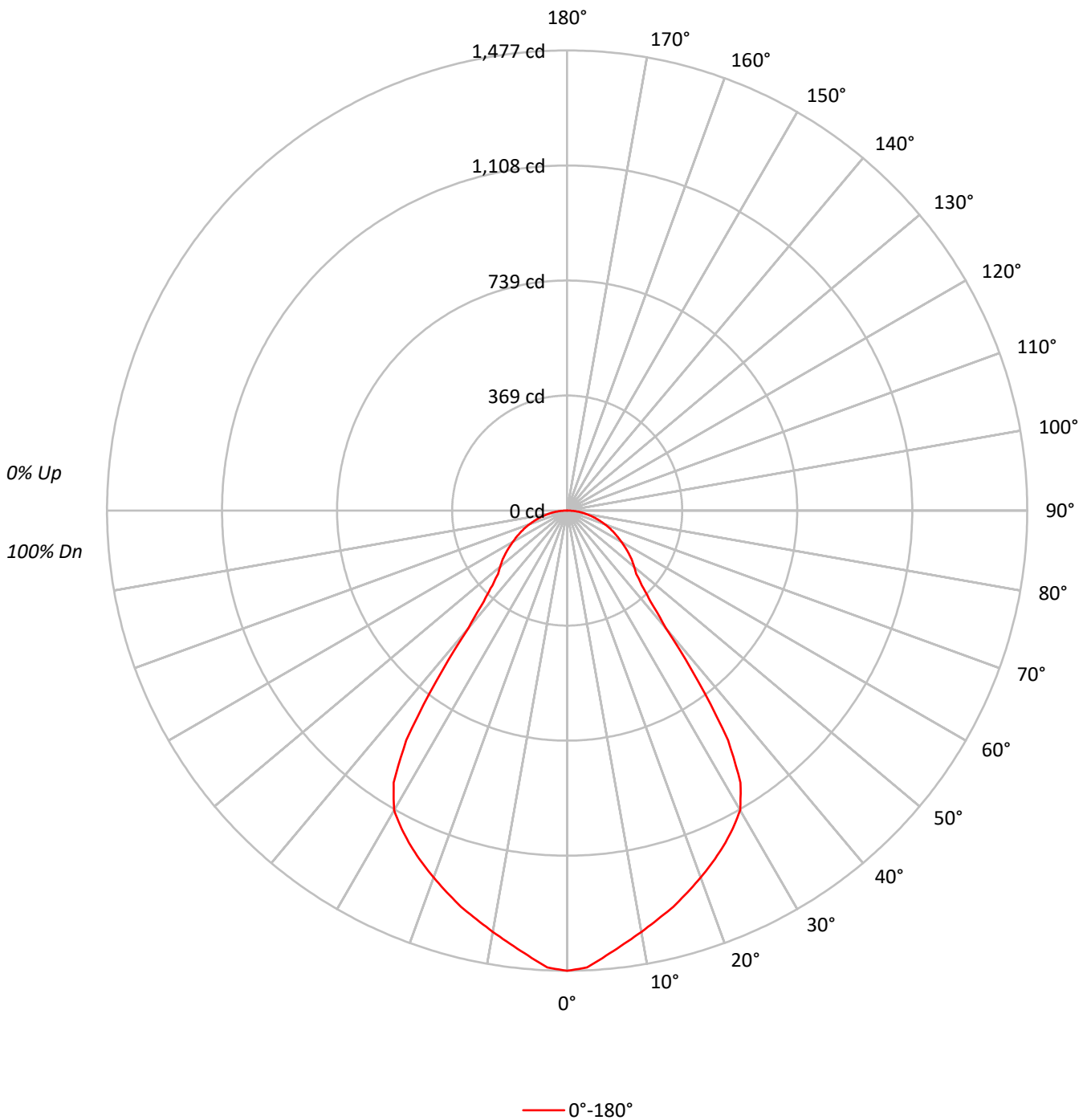
Lumens per Lamp: N/A
Luminaire Lumens: 2368.0 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.07
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 29.1
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	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60
5	83	72	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54
6	77	66	58	52	75	65	57	52	63	57	52	61	56	51	60	55	51	49
7	72	61	53	47	71	60	53	47	58	52	47	57	51	47	56	50	46	45
8	68	56	49	43	67	55	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	52	45	40	50	44	40	49	44	39	49	43	39	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	24090
5°	23480
10°	22739
15°	22228
20°	21750
25°	21371
30°	20916
35°	17924
40°	10499
45°	7826
50°	7117
55°	6881
60°	6566
65°	6372
70°	6147
75°	5987
80°	5739
85°	5502

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7826 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.0	5.7
10°-20°	370.9	15.7
20°-30°	546.8	23.1
30°-40°	530.4	22.4
40°-50°	273.3	11.5
50°-60°	216.2	9.1
60°-70°	163.4	6.9
70°-80°	99.6	4.2
80°-90°	32.3	1.4
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°	1052.7	44.5
0°-40°	1583.2	66.9
0°-60°	2072.7	87.5
0°-90°	2368.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2368.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1477	
5°	1434	135
15°	1316	371
25°	1188	547
35°	900	530
45°	339	273
55°	242	216
65°	165	163
75°	95	100
85°	29	32
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1477.0
2.5°	1468.0
5°	1434.1
7.5°	1402.4
10°	1373.0
12.5°	1343.6
15°	1316.4
17.5°	1284.8
20°	1253.1
22.5°	1221.4
25°	1187.5
27.5°	1151.3
30°	1110.6
32.5°	1036.0
35°	900.2
37.5°	689.9
40°	493.1
42.5°	395.8
45°	339.3
47.5°	300.8
50°	280.5
52.5°	262.4
55°	242.0
57.5°	221.7
60°	201.3
62.5°	183.2
65°	165.1
67.5°	147.0
70°	128.9
72.5°	110.8
75°	95.0
77.5°	76.9
80°	61.1
82.5°	45.2
85°	29.4
87.5°	13.6
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	17.17	18.53	17.53	18.84	19.16	17.17	18.53	17.53	18.84	19.16
	3H	18.99	20.21	19.37	20.54	20.91	18.99	20.21	19.37	20.54	20.91
	4H	19.72	20.86	20.12	21.22	21.60	19.72	20.86	20.12	21.22	21.60
	6H	20.29	21.35	20.71	21.72	22.11	20.29	21.35	20.71	21.72	22.11
	8H	20.50	21.51	20.93	21.90	22.30	20.50	21.51	20.93	21.90	22.30
	12H	20.66	21.61	21.09	22.00	22.43	20.66	21.61	21.09	22.00	22.43
4H	2H	17.76	18.91	18.16	19.26	19.64	17.76	18.91	18.16	19.26	19.64
	3H	19.81	20.76	20.22	21.16	21.56	19.81	20.76	20.22	21.16	21.56
	4H	20.67	21.53	21.11	21.95	22.39	20.67	21.53	21.11	21.95	22.39
	6H	21.39	22.13	21.85	22.58	23.04	21.39	22.13	21.85	22.58	23.04
	8H	21.65	22.35	22.12	22.79	23.26	21.65	22.35	22.12	22.79	23.26
	12H	21.86	22.48	22.34	22.96	23.43	21.86	22.48	22.34	22.96	23.43
8H	4H	20.99	21.68	21.45	22.13	22.60	20.99	21.68	21.45	22.13	22.60
	6H	21.85	22.42	22.35	22.91	23.39	21.85	22.42	22.35	22.91	23.39
	8H	22.21	22.72	22.73	23.23	23.72	22.21	22.72	22.73	23.23	23.72
	12H	22.51	22.96	23.02	23.45	24.02	22.51	22.96	23.02	23.45	24.02
12H	4H	21.02	21.64	21.50	22.12	22.59	21.02	21.64	21.50	22.12	22.59
	6H	21.92	22.43	22.44	22.94	23.43	21.92	22.43	22.44	22.94	23.43
	8H	22.34	22.79	22.86	23.28	23.85	22.34	22.79	22.86	23.28	23.85