

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: P867086

Luminaire Tested: PRLX-2002-L-935-48L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867086
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-82)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-935-48L-L-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

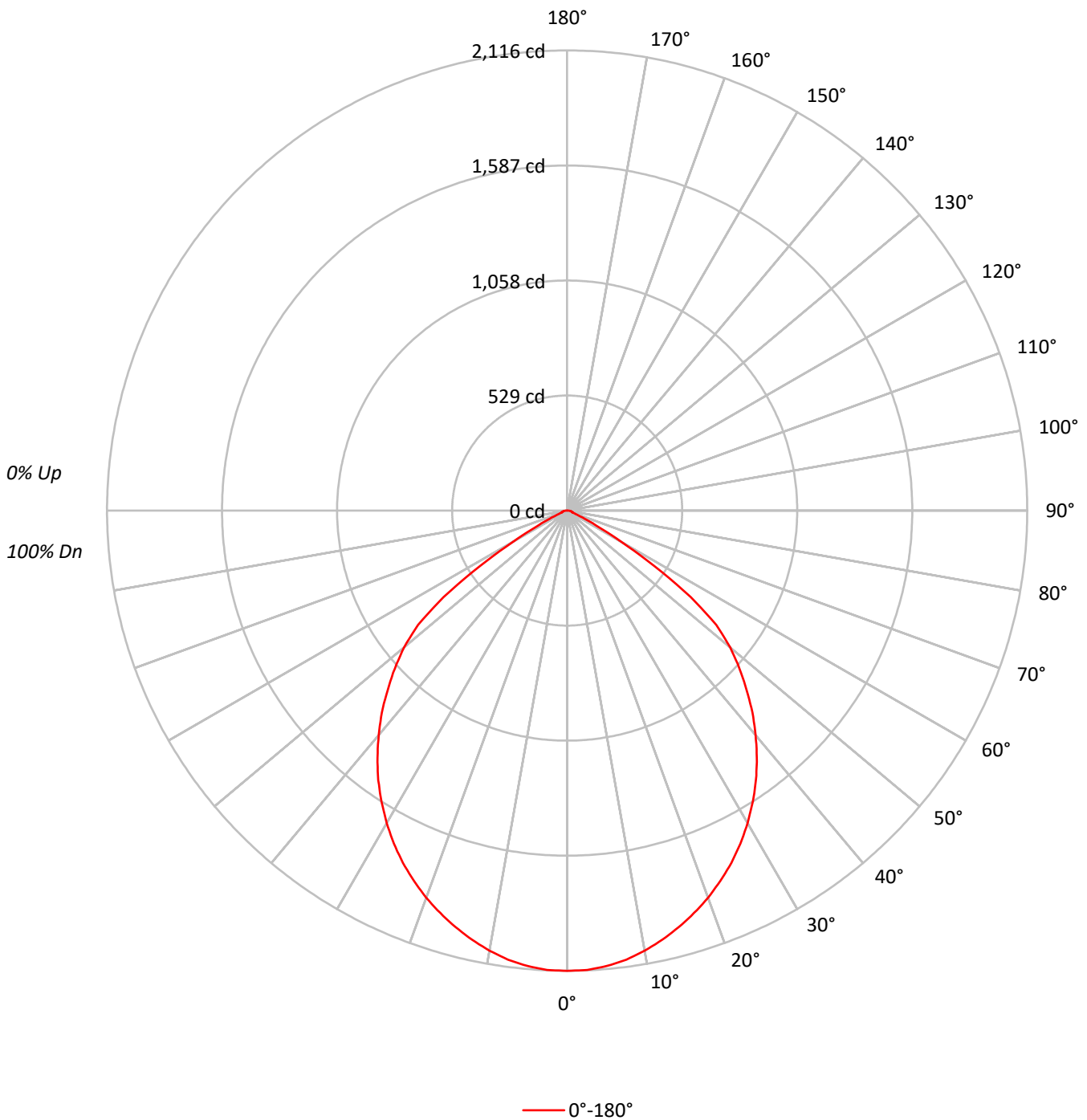
Lumens per Lamp: N/A
Luminaire Lumens: 4159.8 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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	112	108	105	102	109	106	103	100	102	99	97		98	96	94		94	93	91	90
2	104	97	92	87	101	95	91	86	92	88	84		89	86	83		86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74		81	76	73		78	75	71	69
4	89	79	72	66	87	78	71	66	75	70	65		73	68	64		71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57		67	61	57		65	60	56	54
6	77	65	57	52	75	64	57	52	63	56	51		61	55	51		60	54	50	48
7	72	60	52	46	70	59	51	46	57	51	46		56	50	46		55	49	45	43
8	67	55	47	42	65	54	47	42	53	46	41		52	46	41		50	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38		48	42	37		47	41	37	36
10	59	47	39	35	58	46	39	34	45	39	34		44	38	34		43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	10442
5°	10411
10°	10295
15°	10130
20°	9945
25°	9727
30°	9453
35°	9118
40°	8682
45°	8147
50°	7508
55°	5969
60°	2809
65°	1015
70°	391
75°	433
80°	497
85°	594

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8147 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.2	4.8
10°-20°	558.9	13.4
20°-30°	822.1	19.8
30°-40°	944.5	22.7
40°-50°	899.6	21.6
50°-60°	591.6	14.2
60°-70°	109.3	2.6
70°-80°	23.9	0.6
80°-90°	10.7	0.3
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°	1580.2	38.0
0°-40°	2524.7	60.7
0°-60°	4015.9	96.5
0°-90°	4159.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4159.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2116	
5°	2102	199
15°	1983	559
25°	1787	822
35°	1514	945
45°	1168	900
55°	694	592
65°	87	109
75°	23	24
85°	10	11
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2116.5
2.5°	2114.3
5°	2102.1
7.5°	2082.5
10°	2054.9
12.5°	2021.3
15°	1983.3
17.5°	1940.5
20°	1894.2
22.5°	1842.7
25°	1786.8
27.5°	1725.7
30°	1659.3
32.5°	1588.1
35°	1513.9
37.5°	1432.7
40°	1348.0
42.5°	1261.1
45°	1167.6
47.5°	1075.1
50°	978.1
52.5°	864.6
55°	693.9
57.5°	475.5
60°	284.7
62.5°	160.3
65°	86.9
67.5°	43.7
70°	27.1
72.5°	24.9
75°	22.7
77.5°	20.5
80°	17.5
82.5°	14.4
85°	10.5
87.5°	5.7
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	16.14	17.55	16.51	17.86	18.17	16.14	17.55	16.51	17.86	18.17
	3H	16.06	17.29	16.44	17.62	17.99	16.06	17.29	16.44	17.62	17.99
	4H	16.01	17.16	16.41	17.51	17.89	16.01	17.16	16.41	17.51	17.89
	6H	15.96	17.02	16.38	17.39	17.78	15.96	17.02	16.38	17.39	17.78
	8H	15.94	16.93	16.37	17.33	17.73	15.94	16.93	16.37	17.33	17.73
	12H	15.91	16.87	16.35	17.25	17.68	15.91	16.87	16.35	17.25	17.68
4H	2H	16.02	17.16	16.42	17.51	17.90	16.02	17.16	16.42	17.51	17.90
	3H	15.95	16.87	16.36	17.28	17.68	15.95	16.87	16.36	17.28	17.68
	4H	15.90	16.72	16.33	17.14	17.58	15.90	16.72	16.33	17.14	17.58
	6H	15.87	16.57	16.33	17.02	17.49	15.87	16.57	16.33	17.02	17.49
	8H	15.84	16.50	16.31	16.95	17.42	15.84	16.50	16.31	16.95	17.42
	12H	15.82	16.41	16.30	16.89	17.36	15.82	16.41	16.30	16.89	17.36
8H	4H	15.78	16.45	16.25	16.89	17.36	15.78	16.45	16.25	16.89	17.36
	6H	15.75	16.29	16.25	16.79	17.27	15.75	16.29	16.25	16.79	17.27
	8H	15.72	16.22	16.24	16.73	17.22	15.72	16.22	16.24	16.73	17.22
	12H	15.72	16.16	16.23	16.66	17.23	15.72	16.16	16.23	16.66	17.23
12H	4H	15.74	16.33	16.23	16.81	17.29	15.74	16.33	16.23	16.81	17.29
	6H	15.69	16.19	16.21	16.70	17.19	15.69	16.19	16.21	16.70	17.19
	8H	15.69	16.14	16.20	16.63	17.20	15.69	16.14	16.20	16.63	17.20