

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: P866830

Luminaire Tested: PRLX-2001-L-935-48L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866830
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-78)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-935-48L-L-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

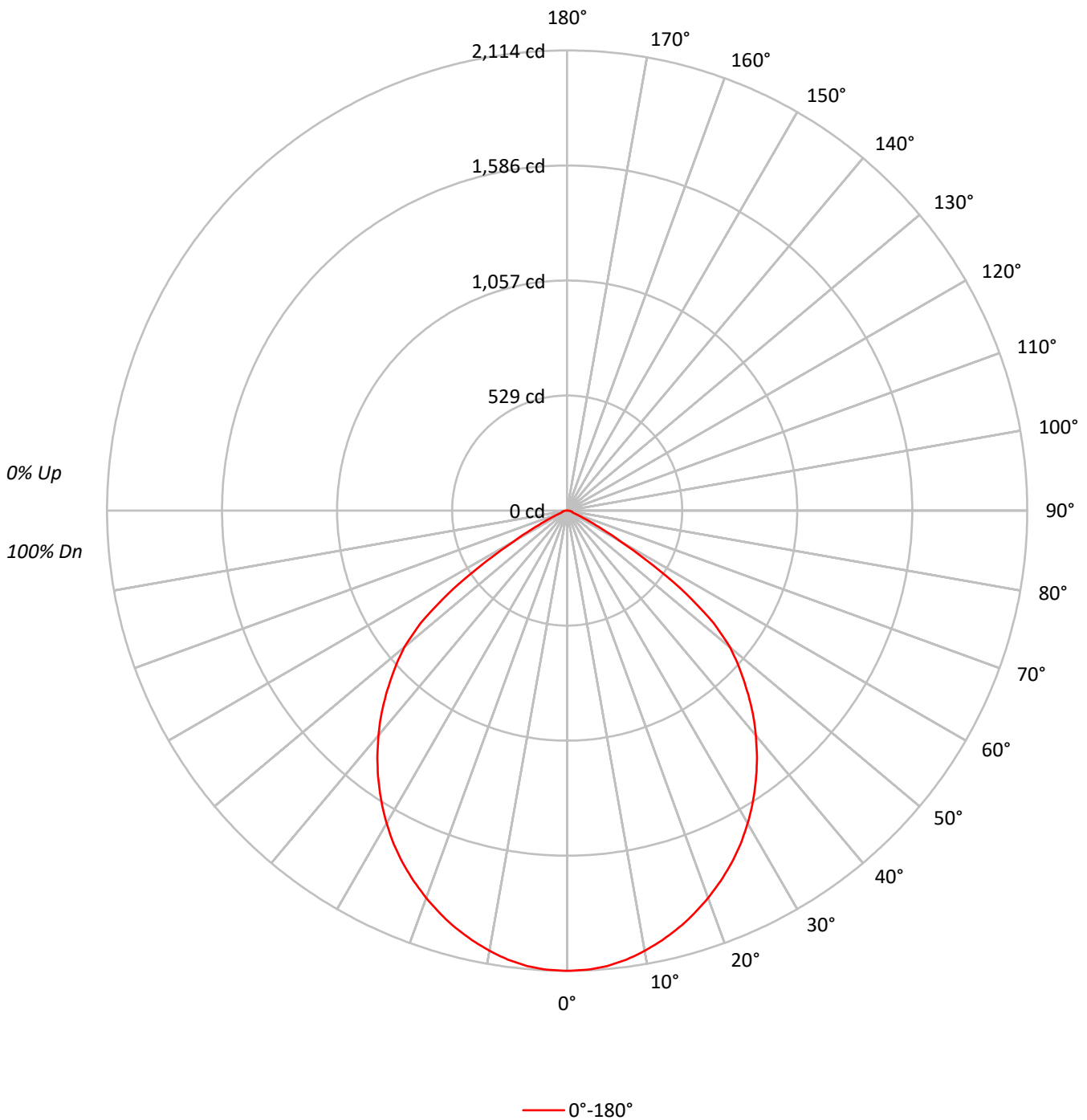
Lumens per Lamp: N/A
Luminaire Lumens: 4152.6 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

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	49
7	72	60	52	46	70	59	51	46	57	51	46		56	50	46		55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	41		52	46	41		51	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	35	45	39	34		44	38	34		44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	11559
5°	11526
10°	11400
15°	11228
20°	11018
25°	10778
30°	10474
35°	10089
40°	9620
45°	9034
50°	8300
55°	6410
60°	3099
65°	1169
70°	460
75°	507
80°	576
85°	659

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9034 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.0	4.8
10°-20°	558.9	13.5
20°-30°	822.0	19.8
30°-40°	944.1	22.7
40°-50°	900.0	21.7
50°-60°	581.0	14.0
60°-70°	111.6	2.7
70°-80°	25.1	0.6
80°-90°	10.8	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°	1580.0	38.0
0°-40°	2524.1	60.8
0°-60°	4005.0	96.4
0°-90°	4152.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4152.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2114	
5°	2100	199
15°	1984	559
25°	1787	822
35°	1512	944
45°	1168	900
55°	672	581
65°	90	112
75°	24	25
85°	10	11
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2114.3
2.5°	2111.7
5°	2100.4
7.5°	2081.1
10°	2053.6
12.5°	2020.9
15°	1983.8
17.5°	1941.0
20°	1893.8
22.5°	1841.8
25°	1786.8
27.5°	1726.1
30°	1659.3
32.5°	1587.7
35°	1511.7
37.5°	1432.7
40°	1348.0
42.5°	1262.8
45°	1168.5
47.5°	1075.5
50°	975.9
52.5°	847.1
55°	672.5
57.5°	468.5
60°	283.4
62.5°	162.4
65°	90.4
67.5°	47.2
70°	28.8
72.5°	26.2
75°	24.0
77.5°	21.4
80°	18.3
82.5°	14.8
85°	10.5
87.5°	5.2
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	16.41	17.81	16.77	18.12	18.44	16.41	17.81	16.77	18.12	18.44
	3H	16.33	17.57	16.71	17.89	18.26	16.33	17.57	16.71	17.89	18.26
	4H	16.29	17.43	16.69	17.78	18.16	16.29	17.43	16.69	17.78	18.16
	6H	16.24	17.29	16.66	17.66	18.06	16.24	17.29	16.66	17.66	18.06
	8H	16.22	17.21	16.65	17.60	18.01	16.22	17.21	16.65	17.60	18.01
	12H	16.19	17.14	16.62	17.53	17.96	16.19	17.14	16.62	17.53	17.96
4H	2H	16.29	17.43	16.69	17.78	18.17	16.29	17.43	16.69	17.78	18.17
	3H	16.23	17.15	16.64	17.56	17.96	16.23	17.15	16.64	17.56	17.96
	4H	16.18	17.00	16.62	17.42	17.86	16.18	17.00	16.62	17.42	17.86
	6H	16.16	16.86	16.62	17.31	17.77	16.16	16.86	16.62	17.31	17.77
	8H	16.13	16.79	16.60	17.24	17.71	16.13	16.79	16.60	17.24	17.71
	12H	16.11	16.70	16.60	17.18	17.66	16.11	16.70	16.60	17.18	17.66
8H	4H	16.07	16.73	16.54	17.18	17.65	16.07	16.73	16.54	17.18	17.65
	6H	16.04	16.59	16.54	17.08	17.56	16.04	16.59	16.54	17.08	17.56
	8H	16.02	16.52	16.54	17.03	17.52	16.02	16.52	16.54	17.03	17.52
	12H	16.02	16.46	16.53	16.96	17.53	16.02	16.46	16.53	16.96	17.53
12H	4H	16.03	16.62	16.52	17.10	17.57	16.03	16.62	16.52	17.10	17.57
	6H	15.99	16.48	16.51	17.00	17.49	15.99	16.48	16.51	17.00	17.49
	8H	15.99	16.44	16.50	16.93	17.50	15.99	16.44	16.50	16.93	17.50