

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: P866202

Luminaire Tested: PRLX-2002-M-927-65L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866202
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-M-927-65L-L-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

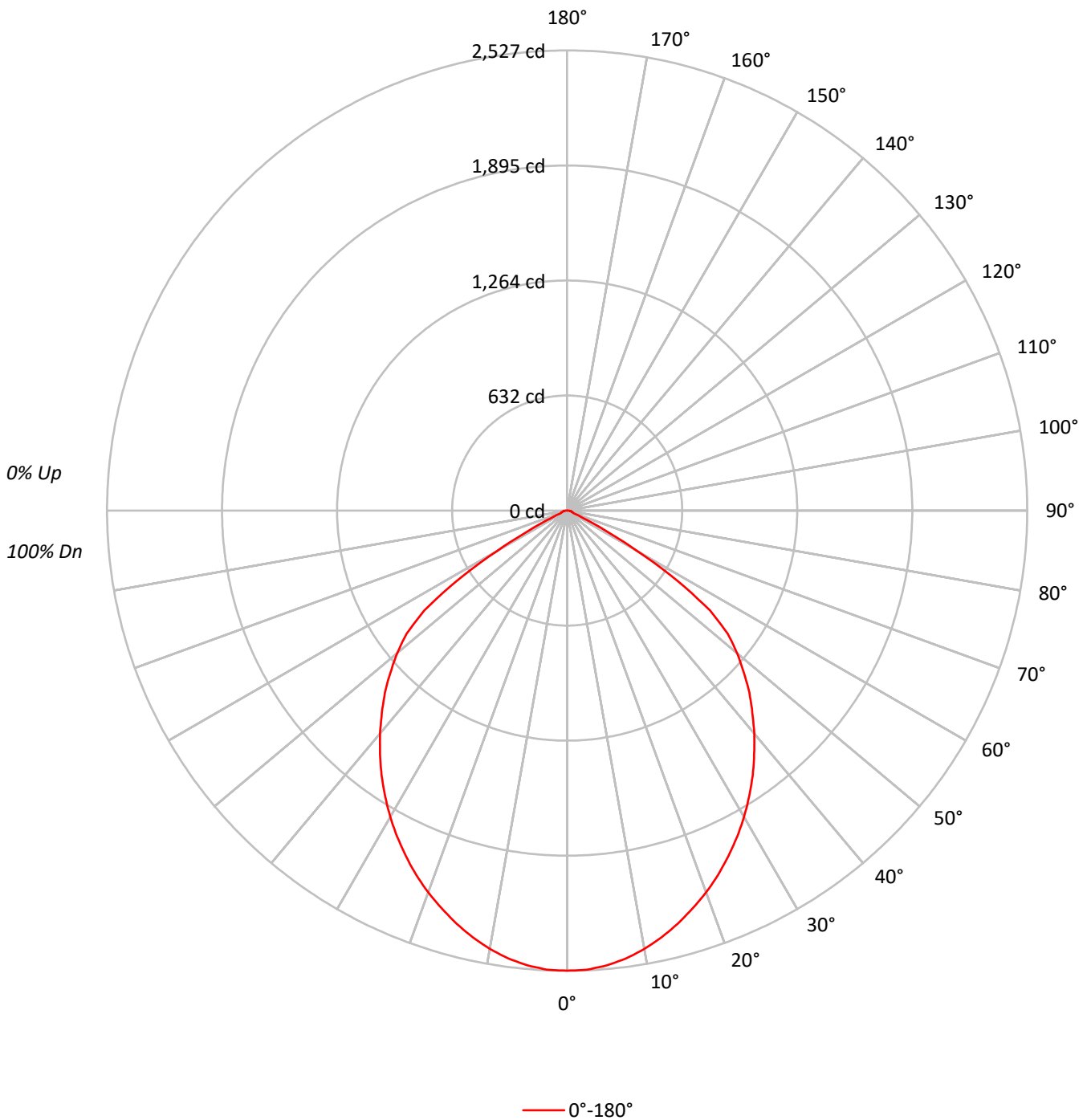
Lumens per Lamp: N/A
Luminaire Lumens: 5060.1 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 58.6
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

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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	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69
4	89	78	71	65	86	77	70	65	75	69	64	73	67	63	71	66	62	60
5	82	71	63	57	80	70	63	57	68	61	56	66	60	56	64	59	55	53
6	76	64	56	51	74	64	56	51	62	55	50	60	54	50	59	53	49	48
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	48	44	43
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	40	36	35
10	58	46	39	34	57	45	38	34	45	38	34	44	38	33	43	37	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	20101
5°	20020
10°	19745
15°	19343
20°	18892
25°	18386
30°	17848
35°	17251
40°	16597
45°	15920
50°	15085
55°	13291
60°	7085
65°	1864
70°	768
75°	861
80°	980
85°	1205

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15920 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.3	4.7
10°-20°	661.4	13.1
20°-30°	964.3	19.1
30°-40°	1109.9	21.9
40°-50°	1089.0	21.5
50°-60°	806.6	15.9
60°-70°	148.9	2.9
70°-80°	29.4	0.6
80°-90°	13.2	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°	1863.0	36.8
0°-40°	2972.9	58.8
0°-60°	4868.6	96.2
0°-90°	5060.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5060.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2527	
5°	2507	237
15°	2348	661
25°	2094	964
35°	1776	1110
45°	1415	1089
55°	958	807
65°	99	149
75°	28	29
85°	13	13
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2526.6
2.5°	2523.3
5°	2506.8
7.5°	2480.5
10°	2444.2
12.5°	2399.6
15°	2348.5
17.5°	2290.8
20°	2231.4
22.5°	2165.5
25°	2094.5
27.5°	2020.3
30°	1942.8
32.5°	1860.3
35°	1776.2
37.5°	1687.2
40°	1598.1
42.5°	1505.8
45°	1415.0
47.5°	1316.1
50°	1218.8
52.5°	1111.6
55°	958.2
57.5°	724.0
60°	445.3
62.5°	229.2
65°	99.0
67.5°	42.9
70°	33.0
72.5°	31.3
75°	28.0
77.5°	24.7
80°	21.4
82.5°	18.1
85°	13.2
87.5°	6.6
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	20.02	21.45	20.38	21.76	22.08	20.02	21.45	20.38	21.76	22.08
	3H	19.92	21.18	20.30	21.51	21.87	19.92	21.18	20.30	21.51	21.87
	4H	19.87	21.04	20.27	21.39	21.77	19.87	21.04	20.27	21.39	21.77
	6H	19.81	20.88	20.23	21.25	21.65	19.81	20.88	20.23	21.25	21.65
	8H	19.78	20.80	20.21	21.19	21.59	19.78	20.80	20.21	21.19	21.59
	12H	19.75	20.72	20.19	21.11	21.54	19.75	20.72	20.19	21.11	21.54
4H	2H	19.87	21.04	20.28	21.39	21.77	19.87	21.04	20.28	21.39	21.77
	3H	19.79	20.73	20.20	21.13	21.53	19.79	20.73	20.20	21.13	21.53
	4H	19.73	20.56	20.16	20.98	21.42	19.73	20.56	20.16	20.98	21.42
	6H	19.68	20.40	20.14	20.85	21.31	19.68	20.40	20.14	20.85	21.31
	8H	19.64	20.32	20.11	20.77	21.24	19.64	20.32	20.11	20.77	21.24
	12H	19.62	20.22	20.10	20.70	21.17	19.62	20.22	20.10	20.70	21.17
8H	4H	19.61	20.28	20.08	20.73	21.20	19.61	20.28	20.08	20.73	21.20
	6H	19.55	20.11	20.05	20.60	21.08	19.55	20.11	20.05	20.60	21.08
	8H	19.51	20.02	20.03	20.53	21.02	19.51	20.02	20.03	20.53	21.02
	12H	19.50	19.95	20.01	20.45	21.02	19.50	19.95	20.01	20.45	21.02
12H	4H	19.57	20.17	20.05	20.65	21.12	19.57	20.17	20.05	20.65	21.12
	6H	19.49	20.00	20.01	20.51	21.00	19.49	20.00	20.01	20.51	21.00
	8H	19.48	19.93	19.99	20.43	21.00	19.48	19.93	19.99	20.43	21.00