

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: P867070

Luminaire Tested: PRLX-2002-L-935-15L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867070
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-935-15L-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 1
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

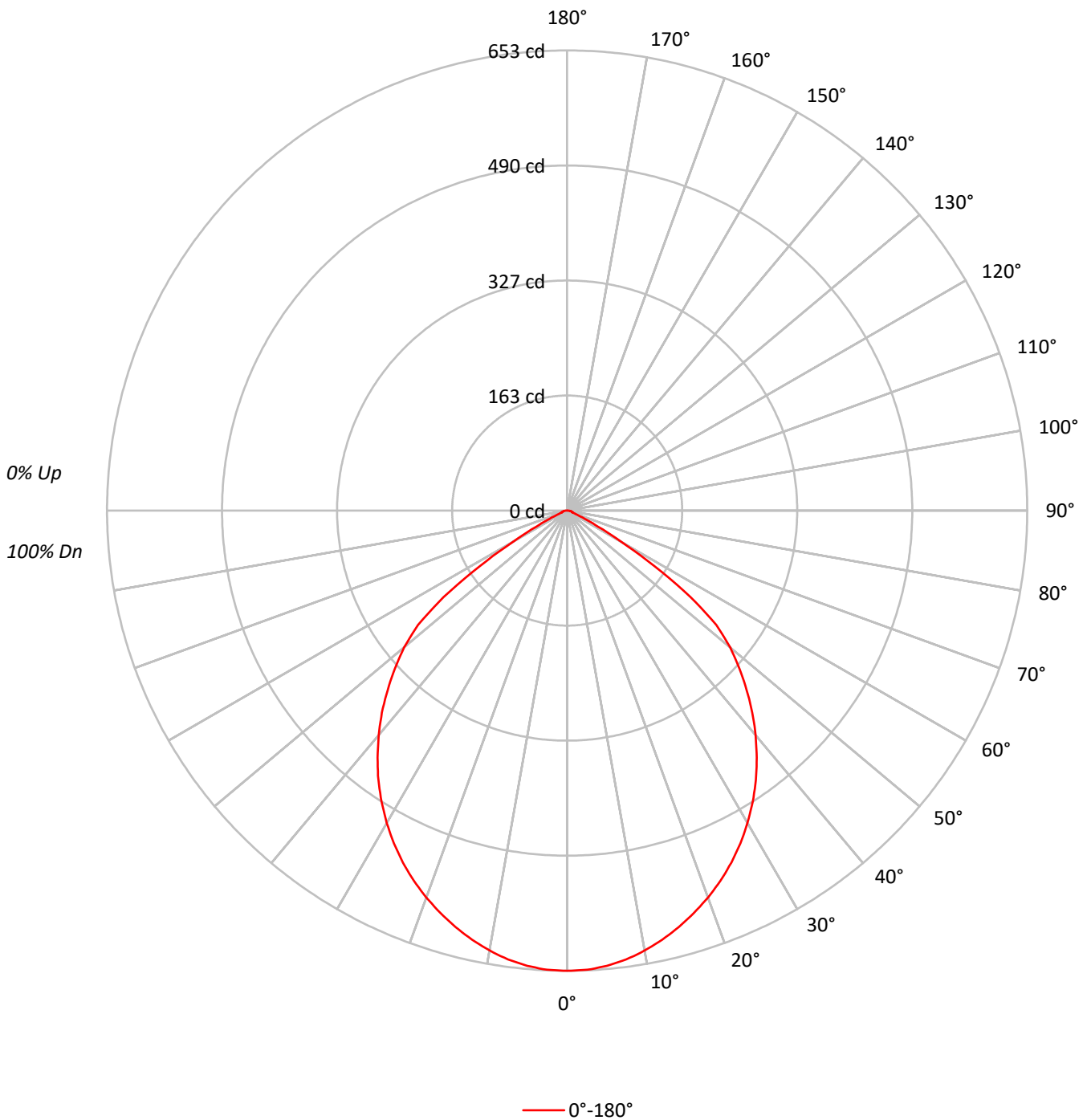
Lumens per Lamp: N/A
Luminaire Lumens: 1283.4 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 16.4
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°	3222
5°	3212
10°	3176
15°	3125
20°	3068
25°	3001
30°	2916
35°	2813
40°	2679
45°	2513
50°	2317
55°	1842
60°	866
65°	313
70°	121
75°	133
80°	153
85°	181

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2513 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.4	4.8
10°-20°	172.4	13.4
20°-30°	253.6	19.8
30°-40°	291.4	22.7
40°-50°	277.6	21.6
50°-60°	182.5	14.2
60°-70°	33.7	2.6
70°-80°	7.4	0.6
80°-90°	3.3	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°	487.5	38.0
0°-40°	778.9	60.7
0°-60°	1239.0	96.5
0°-90°	1283.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1283.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	653	
5°	648	61
15°	612	172
25°	551	254
35°	467	291
45°	360	278
55°	214	183
65°	27	34
75°	7	7
85°	3	3
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	653.0
2.5°	652.3
5°	648.5
7.5°	642.5
10°	634.0
12.5°	623.6
15°	611.9
17.5°	598.7
20°	584.4
22.5°	568.5
25°	551.3
27.5°	532.4
30°	511.9
32.5°	490.0
35°	467.1
37.5°	442.0
40°	415.9
42.5°	389.1
45°	360.2
47.5°	331.7
50°	301.8
52.5°	266.7
55°	214.1
57.5°	146.7
60°	87.8
62.5°	49.4
65°	26.8
67.5°	13.5
70°	8.4
72.5°	7.7
75°	7.0
77.5°	6.3
80°	5.4
82.5°	4.4
85°	3.2
87.5°	1.8
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	12.06	13.46	12.42	13.77	14.09	12.06	13.46	12.42	13.77	14.09
	3H	11.97	13.21	12.35	13.54	13.90	11.97	13.21	12.35	13.54	13.90
	4H	11.93	13.07	12.33	13.42	13.80	11.93	13.07	12.33	13.42	13.80
	6H	11.88	12.93	12.29	13.30	13.69	11.88	12.93	12.29	13.30	13.69
	8H	11.85	12.85	12.28	13.24	13.64	11.85	12.85	12.28	13.24	13.64
	12H	11.83	12.78	12.26	13.16	13.59	11.83	12.78	12.26	13.16	13.59
4H	2H	11.93	13.08	12.33	13.43	13.81	11.93	13.08	12.33	13.43	13.81
	3H	11.86	12.79	12.28	13.19	13.59	11.86	12.79	12.28	13.19	13.59
	4H	11.81	12.63	12.25	13.05	13.49	11.81	12.63	12.25	13.05	13.49
	6H	11.78	12.49	12.24	12.93	13.40	11.78	12.49	12.24	12.93	13.40
	8H	11.75	12.41	12.22	12.86	13.33	11.75	12.41	12.22	12.86	13.33
	12H	11.73	12.32	12.22	12.80	13.28	11.73	12.32	12.22	12.80	13.28
8H	4H	11.70	12.36	12.17	12.81	13.28	11.70	12.36	12.17	12.81	13.28
	6H	11.66	12.21	12.16	12.70	13.18	11.66	12.21	12.16	12.70	13.18
	8H	11.64	12.13	12.16	12.65	13.14	11.64	12.13	12.16	12.65	13.14
	12H	11.63	12.08	12.15	12.57	13.14	11.63	12.08	12.15	12.57	13.14
12H	4H	11.66	12.24	12.14	12.73	13.20	11.66	12.24	12.14	12.73	13.20
	6H	11.61	12.10	12.13	12.62	13.11	11.61	12.10	12.13	12.62	13.11
	8H	11.60	12.05	12.12	12.54	13.11	11.60	12.05	12.12	12.54	13.11