

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: P866839

Luminaire Tested: PRLX-2001-L-935-67L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866839
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-76)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2001-L-935-67L-L-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

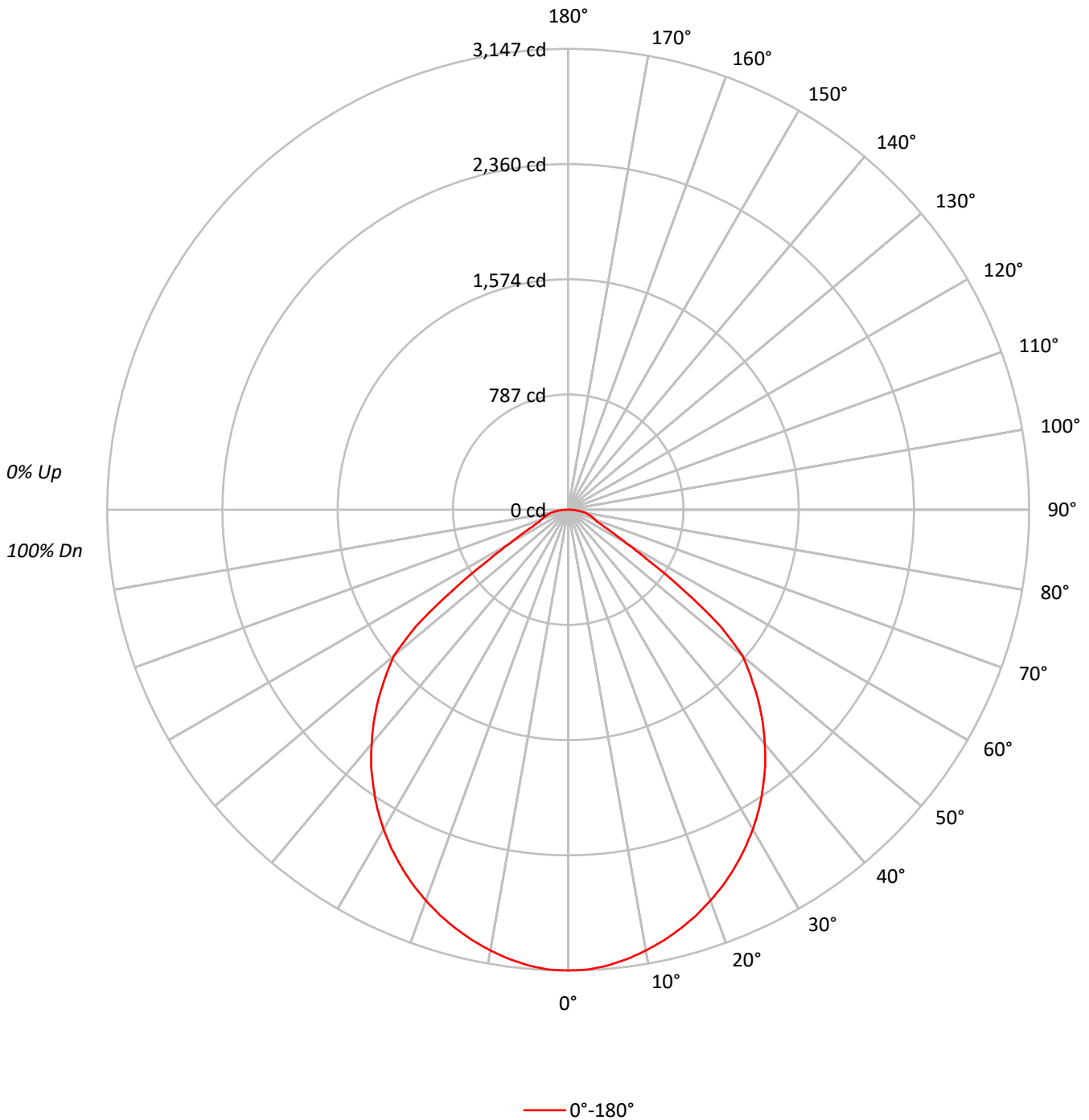
Lumens per Lamp: N/A
Luminaire Lumens: 6617.0 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 50.4
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: 0.333 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	105	101	99	101	98	96	97	95	93	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	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52
6	75	63	55	50	74	63	55	49	61	54	49	59	53	49	58	52	48	46
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	17203
5°	17143
10°	16966
15°	16759
20°	16522
25°	16248
30°	15906
35°	15467
40°	14900
45°	14161
50°	13214
55°	9280
60°	5024
65°	3420
70°	3109
75°	3301
80°	3551
85°	3795

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14161 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.0	4.5
10°-20°	835.0	12.6
20°-30°	1240.3	18.7
30°-40°	1448.1	21.9
40°-50°	1409.6	21.3
50°-60°	877.1	13.3
60°-70°	282.7	4.3
70°-80°	164.0	2.5
80°-90°	64.1	1.0
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°	2371.3	35.8
0°-40°	3819.4	57.7
0°-60°	6106.1	92.3
0°-90°	6617.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6617.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3147	
5°	3124	296
15°	2961	835
25°	2694	1240
35°	2318	1448
45°	1832	1410
55°	974	877
65°	264	283
75°	156	164
85°	60	64
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	3146.8
2.5°	3143.3
5°	3123.9
7.5°	3094.5
10°	3056.3
12.5°	3012.8
15°	2961.1
17.5°	2904.7
20°	2840.0
22.5°	2771.9
25°	2693.7
27.5°	2610.3
30°	2519.8
32.5°	2424.0
35°	2317.6
37.5°	2208.9
40°	2087.9
42.5°	1965.1
45°	1831.7
47.5°	1692.4
50°	1553.7
52.5°	1311.6
55°	973.7
57.5°	663.4
60°	459.5
62.5°	343.2
65°	264.4
67.5°	211.5
70°	194.5
72.5°	175.7
75°	156.3
77.5°	135.7
80°	112.8
82.5°	88.1
85°	60.5
87.5°	30.6
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	17.19	18.64	17.55	18.95	19.27	17.19	18.64	17.55	18.95	19.27
	3H	17.67	18.96	18.05	19.28	19.65	17.67	18.96	18.05	19.28	19.65
	4H	17.99	19.19	18.39	19.54	19.92	17.99	19.19	18.39	19.54	19.92
	6H	18.34	19.45	18.75	19.81	20.21	18.34	19.45	18.75	19.81	20.21
	8H	18.49	19.54	18.92	19.93	20.34	18.49	19.54	18.92	19.93	20.34
	12H	18.62	19.63	19.05	20.01	20.44	18.62	19.63	19.05	20.01	20.44
4H	2H	17.27	18.47	17.67	18.82	19.20	17.27	18.47	17.67	18.82	19.20
	3H	17.96	18.95	18.38	19.35	19.75	17.96	18.95	18.38	19.35	19.75
	4H	18.43	19.31	18.87	19.73	20.17	18.43	19.31	18.87	19.73	20.17
	6H	18.96	19.72	19.42	20.17	20.63	18.96	19.72	19.42	20.17	20.63
	8H	19.19	19.90	19.66	20.35	20.82	19.19	19.90	19.66	20.35	20.82
	12H	19.39	20.03	19.87	20.51	20.98	19.39	20.03	19.87	20.51	20.98
8H	4H	18.60	19.31	19.07	19.76	20.23	18.60	19.31	19.07	19.76	20.23
	6H	19.27	19.86	19.77	20.35	20.83	19.27	19.86	19.77	20.35	20.83
	8H	19.59	20.13	20.11	20.64	21.13	19.59	20.13	20.11	20.64	21.13
	12H	19.90	20.38	20.41	20.87	21.44	19.90	20.38	20.41	20.87	21.44
12H	4H	18.62	19.25	19.10	19.73	20.21	18.62	19.25	19.10	19.73	20.21
	6H	19.32	19.85	19.83	20.37	20.86	19.32	19.85	19.83	20.37	20.86
	8H	19.71	20.19	20.22	20.68	21.25	19.71	20.19	20.22	20.68	21.25