

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: P866846

Luminaire Tested: PRLX-2001-L-935-83L-L-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866846
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: Pentalux
Catalog Number: PRLX-2001-L-935-83L-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 5
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

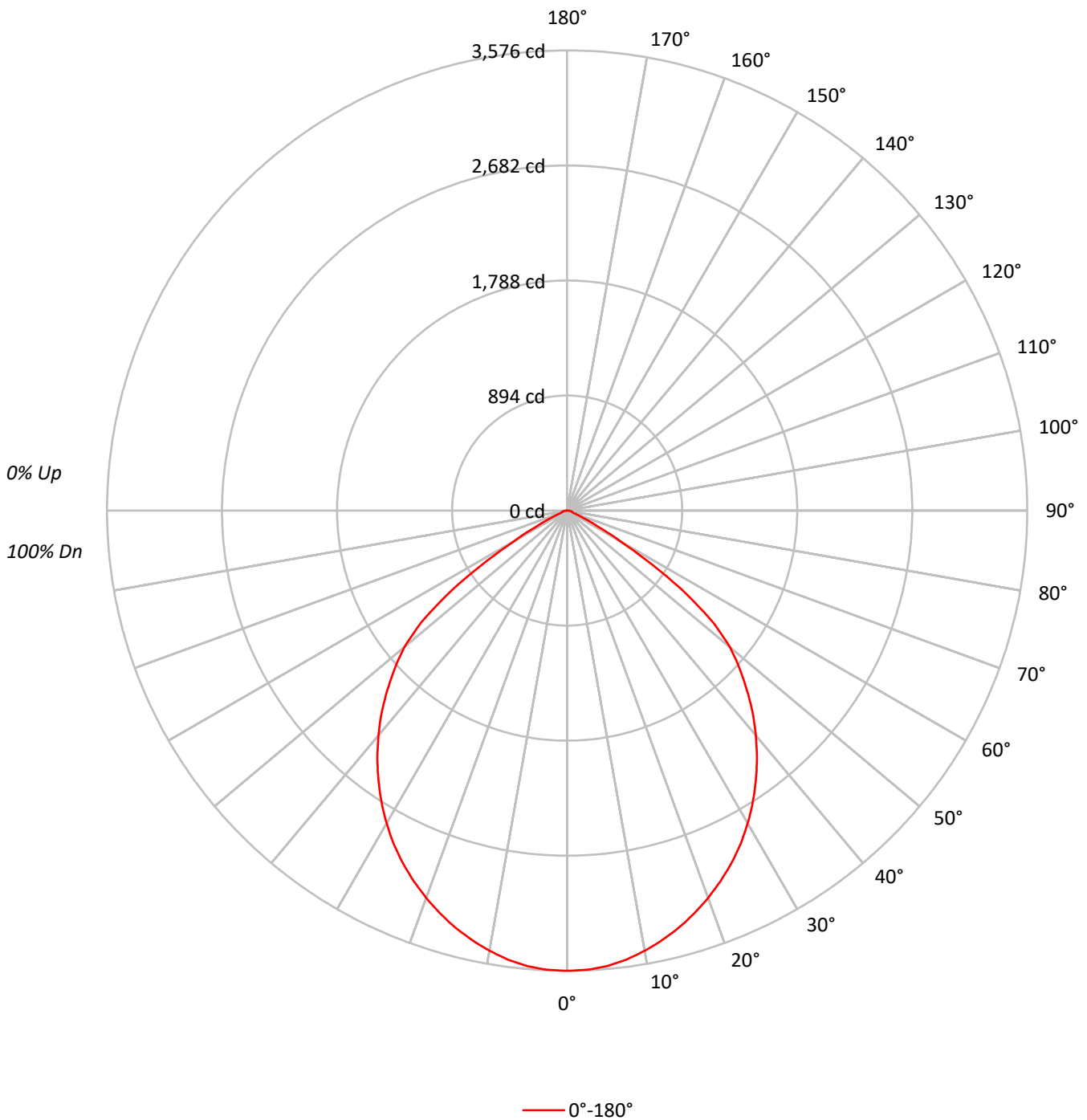
Lumens per Lamp: N/A
Luminaire Lumens: 7024.2 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 64.5
Input Voltage (V): 120
Input Current (Ain): 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°	19551
5°	19496
10°	19283
15°	18991
20°	18636
25°	18231
30°	17718
35°	17066
40°	16272
45°	15281
50°	14040
55°	10842
60°	5242
65°	1978
70°	778
75°	858
80°	976
85°	1110

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15281 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.6	4.8
10°-20°	945.4	13.5
20°-30°	1390.5	19.8
30°-40°	1597.0	22.7
40°-50°	1522.3	21.7
50°-60°	982.8	14.0
60°-70°	188.8	2.7
70°-80°	42.5	0.6
80°-90°	18.3	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°	2672.5	38.0
0°-40°	4269.5	60.8
0°-60°	6774.5	96.4
0°-90°	7024.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7024.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3576	
5°	3553	337
15°	3356	945
25°	3022	1390
35°	2557	1597
45°	1976	1522
55°	1138	983
65°	153	189
75°	41	43
85°	18	18
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	3576.3
2.5°	3571.9
5°	3552.7
7.5°	3520.2
10°	3473.7
12.5°	3418.3
15°	3355.5
17.5°	3283.1
20°	3203.3
22.5°	3115.4
25°	3022.4
27.5°	2919.7
30°	2806.7
32.5°	2685.6
35°	2557.1
37.5°	2423.4
40°	2280.1
42.5°	2136.1
45°	1976.5
47.5°	1819.2
50°	1650.8
52.5°	1432.9
55°	1137.5
57.5°	792.5
60°	479.4
62.5°	274.8
65°	152.9
67.5°	79.8
70°	48.7
72.5°	44.3
75°	40.6
77.5°	36.2
80°	31.0
82.5°	25.1
85°	17.7
87.5°	8.9
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	18.23	19.63	18.60	19.95	20.26	18.23	19.63	18.60	19.95	20.26
	3H	18.16	19.39	18.54	19.72	20.08	18.16	19.39	18.54	19.72	20.08
	4H	18.11	19.26	18.51	19.61	19.99	18.11	19.26	18.51	19.61	19.99
	6H	18.07	19.12	18.48	19.49	19.88	18.07	19.12	18.48	19.49	19.88
	8H	18.04	19.04	18.47	19.43	19.83	18.04	19.04	18.47	19.43	19.83
	12H	18.02	18.97	18.45	19.35	19.78	18.02	18.97	18.45	19.35	19.78
4H	2H	18.11	19.26	18.52	19.61	19.99	18.11	19.26	18.52	19.61	19.99
	3H	18.05	18.98	18.47	19.38	19.78	18.05	18.98	18.47	19.38	19.78
	4H	18.01	18.83	18.44	19.25	19.69	18.01	18.83	18.44	19.25	19.69
	6H	17.98	18.69	18.44	19.14	19.60	17.98	18.69	18.44	19.14	19.60
	8H	17.96	18.62	18.42	19.06	19.53	17.96	18.62	18.42	19.06	19.53
	12H	17.94	18.53	18.42	19.01	19.48	17.94	18.53	18.42	19.01	19.48
8H	4H	17.90	18.56	18.37	19.01	19.48	17.90	18.56	18.37	19.01	19.48
	6H	17.87	18.41	18.37	18.91	19.39	17.87	18.41	18.37	18.91	19.39
	8H	17.85	18.34	18.37	18.86	19.35	17.85	18.34	18.37	18.86	19.35
	12H	17.85	18.29	18.36	18.78	19.35	17.85	18.29	18.36	18.78	19.35
12H	4H	17.86	18.44	18.34	18.93	19.40	17.86	18.44	18.34	18.93	19.40
	6H	17.81	18.31	18.33	18.82	19.31	17.81	18.31	18.33	18.82	19.31
	8H	17.82	18.26	18.33	18.76	19.33	17.82	18.26	18.33	18.76	19.33