

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: P866836

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866836
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-79)
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-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

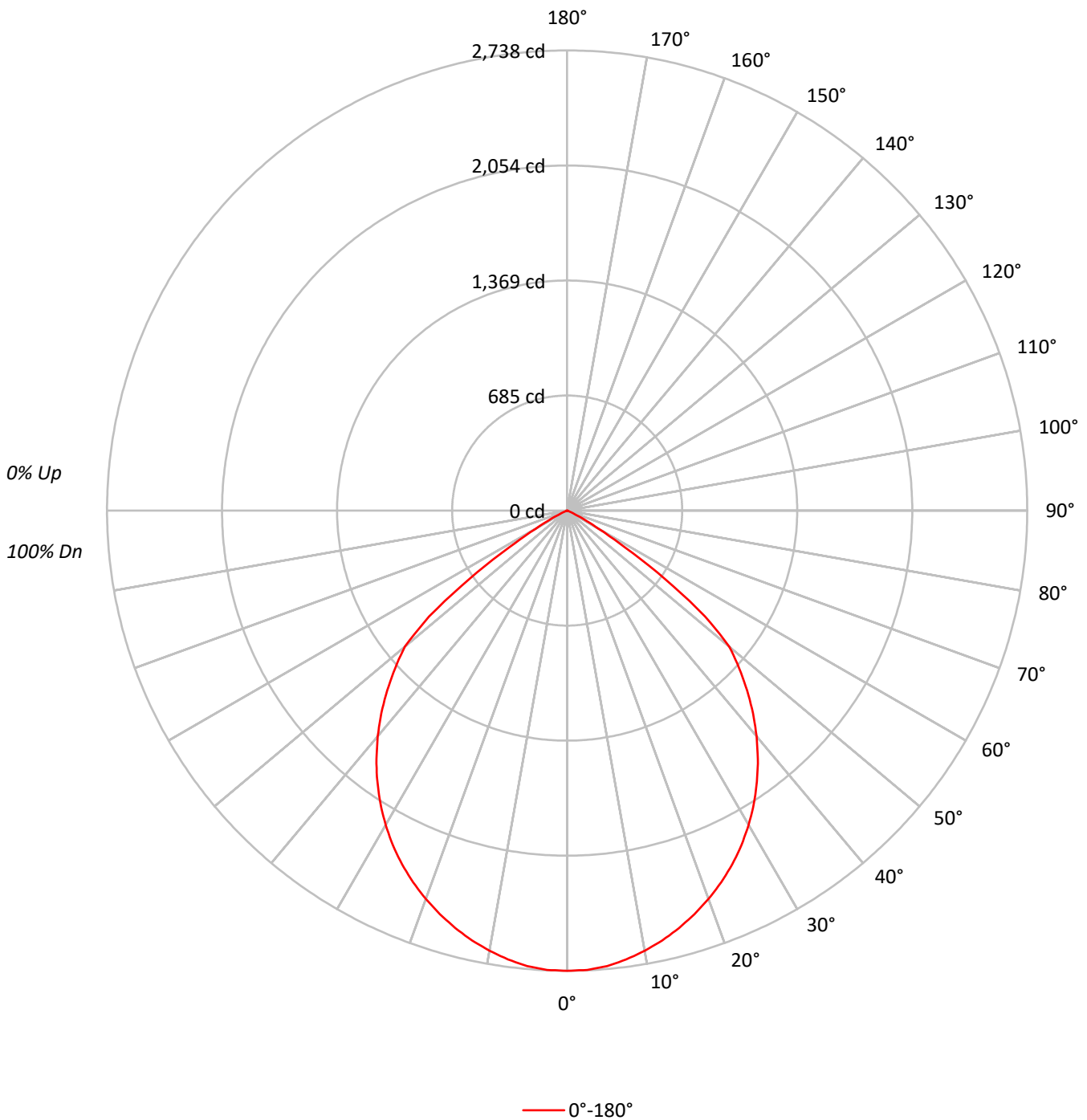
Lumens per Lamp: N/A
Luminaire Lumens: 5160.3 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.27
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

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: 0.5 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	109	105	103	109	106	104	101	102	100	98		98	97	95		95	94	92	90
2	104	98	93	89	102	96	92	88	93	89	86		90	87	84		87	84	82	80
3	97	89	82	77	95	87	81	77	84	79	75		82	78	74		80	76	73	71
4	90	80	73	68	88	79	73	67	77	71	67		75	70	66		73	68	65	63
5	84	73	66	60	82	72	65	60	70	64	59		68	63	59		66	62	58	56
6	78	67	59	53	76	66	58	53	64	58	53		62	57	52		61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48		57	52	47		56	51	47	45
8	68	56	48	43	67	55	48	43	54	48	43		53	47	43		52	47	43	41
9	64	52	44	39	62	51	44	39	50	44	39		49	43	39		48	43	39	37
10	60	48	41	36	59	47	41	36	46	40	36		46	40	36		45	39	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	14970
5°	14928
10°	14764
15°	14554
20°	14304
25°	14015
30°	13633
35°	13142
40°	12510
45°	11703
50°	10710
55°	6794
60°	2358
65°	592
70°	104
75°	112
80°	129
85°	151

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11703 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.7	5.0
10°-20°	724.7	14.0
20°-30°	1068.8	20.7
30°-40°	1229.0	23.8
40°-50°	1165.2	22.6
50°-60°	639.2	12.4
60°-70°	67.6	1.3
70°-80°	5.6	0.1
80°-90°	2.5	0.0
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°	2051.2	39.8
0°-40°	3280.2	63.6
0°-60°	5084.6	98.5
0°-90°	5160.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5160.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2738	
5°	2720	258
15°	2572	725
25°	2324	1069
35°	1969	1229
45°	1514	1165
55°	713	639
65°	46	68
75°	5	6
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2738.4
2.5°	2735.4
5°	2720.2
7.5°	2693.7
10°	2659.6
12.5°	2619.1
15°	2571.5
17.5°	2518.0
20°	2458.7
22.5°	2394.0
25°	2323.5
27.5°	2244.8
30°	2159.6
32.5°	2067.9
35°	1969.2
37.5°	1864.0
40°	1752.9
42.5°	1636.6
45°	1513.7
47.5°	1388.6
50°	1259.3
52.5°	1034.8
55°	712.8
57.5°	407.8
60°	215.7
62.5°	112.2
65°	45.8
67.5°	8.8
70°	6.5
72.5°	5.9
75°	5.3
77.5°	4.7
80°	4.1
82.5°	3.5
85°	2.4
87.5°	1.2
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	14.70	16.06	15.06	16.37	16.69	14.70	16.06	15.06	16.37	16.69
	3H	14.58	15.77	14.96	16.10	16.46	14.58	15.77	14.96	16.10	16.46
	4H	14.51	15.61	14.91	15.96	16.34	14.51	15.61	14.91	15.96	16.34
	6H	14.43	15.44	14.85	15.81	16.21	14.43	15.44	14.85	15.81	16.21
	8H	14.39	15.35	14.82	15.74	16.14	14.39	15.35	14.82	15.74	16.14
	12H	14.35	15.26	14.78	15.65	16.08	14.35	15.26	14.78	15.65	16.08
4H	2H	14.53	15.64	14.93	15.99	16.37	14.53	15.64	14.93	15.99	16.37
	3H	14.41	15.29	14.82	15.70	16.10	14.41	15.29	14.82	15.70	16.10
	4H	14.32	15.11	14.76	15.53	15.97	14.32	15.11	14.76	15.53	15.97
	6H	14.25	14.92	14.71	15.37	15.83	14.25	14.92	14.71	15.37	15.83
	8H	14.19	14.82	14.66	15.27	15.74	14.19	14.82	14.66	15.27	15.74
	12H	14.14	14.70	14.63	15.18	15.66	14.14	14.70	14.63	15.18	15.66
8H	4H	14.18	14.82	14.65	15.26	15.74	14.18	14.82	14.65	15.26	15.74
	6H	14.08	14.60	14.58	15.10	15.58	14.08	14.60	14.58	15.10	15.58
	8H	14.01	14.49	14.54	15.00	15.50	14.01	14.49	14.54	15.00	15.50
	12H	13.97	14.39	14.48	14.89	15.46	13.97	14.39	14.48	14.89	15.46
12H	4H	14.14	14.70	14.62	15.18	15.65	14.14	14.70	14.62	15.18	15.65
	6H	14.01	14.49	14.53	15.00	15.49	14.01	14.49	14.53	15.00	15.49
	8H	13.96	14.39	14.48	14.88	15.45	13.96	14.39	14.48	14.88	15.45