

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: P867156

Luminaire Tested: PRLX-2002-L-940-67L-L-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867156
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-83)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-940-67L-L-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

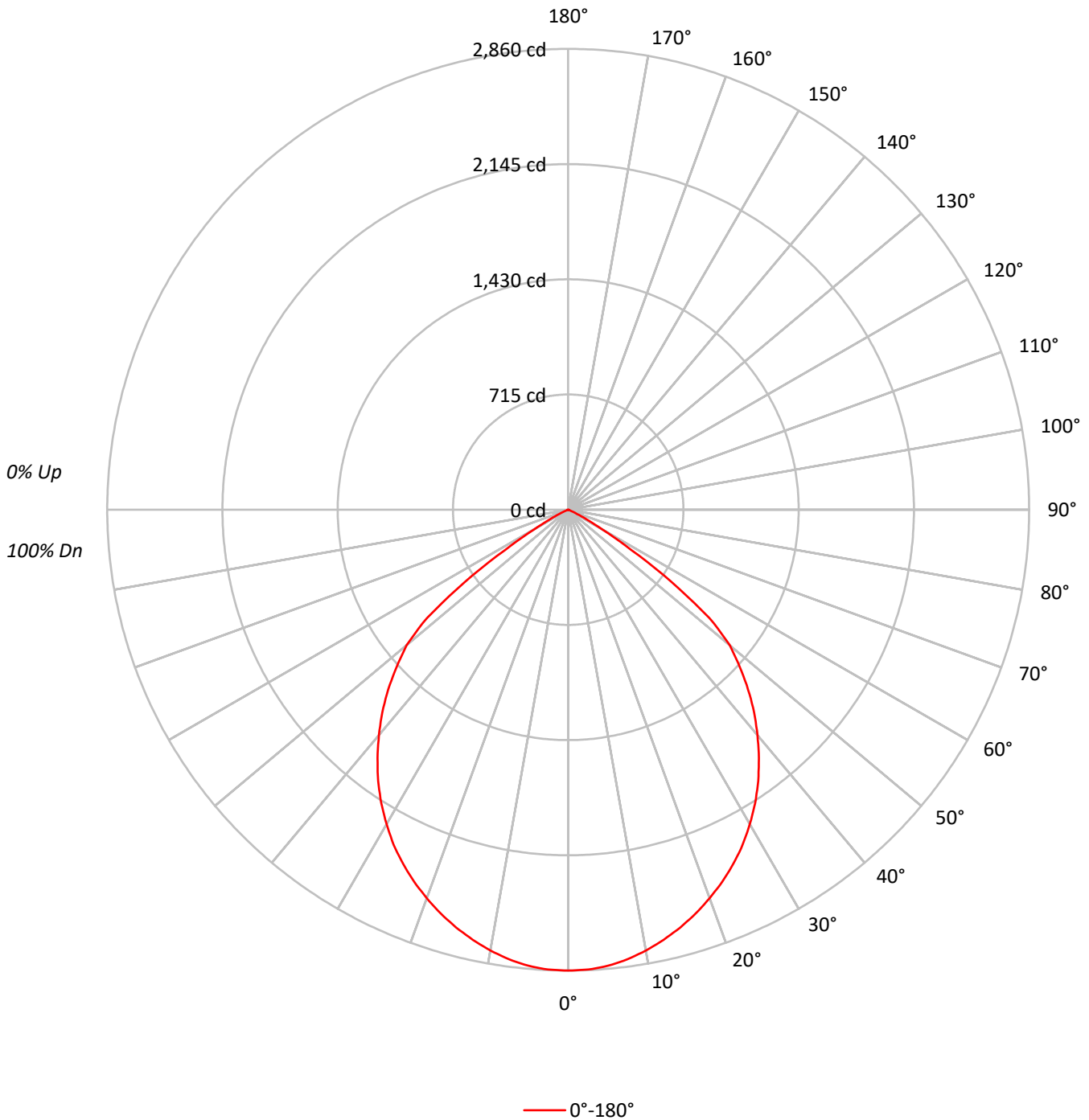
Lumens per Lamp: N/A
Luminaire Lumens: 5409.3 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.27
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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	93	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		79	76	73	71
4	90	80	73	68	88	79	72	67	77	71	66		75	70	66		73	68	65	63
5	84	73	65	60	82	72	65	60	70	64	59		68	63	58		66	62	58	56
6	78	66	59	53	76	66	58	53	64	57	53		62	57	52		61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	47		57	51	47		56	51	47	45
8	68	56	48	43	66	55	48	43	54	47	43		53	47	43		52	46	42	41
9	64	52	44	39	62	51	44	39	50	43	39		49	43	39		48	43	39	37
10	60	48	41	36	59	47	40	36	46	40	36		45	40	35		45	39	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	14111
5°	14071
10°	13920
15°	13713
20°	13474
25°	13199
30°	12841
35°	12378
40°	11763
45°	11014
50°	10039
55°	6712
60°	2385
65°	551
70°	88
75°	93
80°	122
85°	142

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11014 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.2	5.0
10°-20°	756.6	14.0
20°-30°	1115.7	20.6
30°-40°	1282.1	23.7
40°-50°	1213.8	22.4
50°-60°	691.0	12.8
60°-70°	73.3	1.4
70°-80°	5.3	0.1
80°-90°	2.4	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°	2141.5	39.6
0°-40°	3423.5	63.3
0°-60°	5328.4	98.5
0°-90°	5409.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5409.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2860	
5°	2841	269
15°	2685	757
25°	2424	1116
35°	2055	1282
45°	1578	1214
55°	780	691
65°	47	73
75°	5	5
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2860.0
2.5°	2857.0
5°	2841.0
7.5°	2814.6
10°	2778.4
12.5°	2734.3
15°	2684.6
17.5°	2628.1
20°	2566.2
22.5°	2498.7
25°	2424.5
27.5°	2344.7
30°	2253.9
32.5°	2158.2
35°	2055.1
37.5°	1943.5
40°	1826.3
42.5°	1707.9
45°	1578.5
47.5°	1444.1
50°	1307.9
52.5°	1104.3
55°	780.3
57.5°	465.6
60°	241.7
62.5°	120.9
65°	47.2
67.5°	9.2
70°	6.1
72.5°	5.5
75°	4.9
77.5°	4.3
80°	4.3
82.5°	3.1
85°	2.5
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	15.09	16.45	15.46	16.77	17.08	15.09	16.45	15.46	16.77	17.08
	3H	14.97	16.16	15.35	16.49	16.86	14.97	16.16	15.35	16.49	16.86
	4H	14.90	16.01	15.30	16.36	16.74	14.90	16.01	15.30	16.36	16.74
	6H	14.82	15.84	15.24	16.21	16.60	14.82	15.84	15.24	16.21	16.60
	8H	14.78	15.74	15.21	16.13	16.54	14.78	15.74	15.21	16.13	16.54
	12H	14.74	15.66	15.17	16.04	16.47	14.74	15.66	15.17	16.04	16.47
4H	2H	14.92	16.03	15.32	16.38	16.76	14.92	16.03	15.32	16.38	16.76
	3H	14.80	15.68	15.21	16.09	16.49	14.80	15.68	15.21	16.09	16.49
	4H	14.71	15.50	15.14	15.92	16.36	14.71	15.50	15.14	15.92	16.36
	6H	14.63	15.31	15.09	15.76	16.22	14.63	15.31	15.09	15.76	16.22
	8H	14.57	15.21	15.04	15.66	16.13	14.57	15.21	15.04	15.66	16.13
	12H	14.53	15.09	15.01	15.57	16.05	14.53	15.09	15.01	15.57	16.05
8H	4H	14.57	15.20	15.04	15.65	16.12	14.57	15.20	15.04	15.65	16.12
	6H	14.47	14.99	14.97	15.48	15.97	14.47	14.99	14.97	15.48	15.97
	8H	14.40	14.87	14.92	15.39	15.88	14.40	14.87	14.92	15.39	15.88
	12H	14.35	14.78	14.86	15.27	15.84	14.35	14.78	14.86	15.27	15.84
12H	4H	14.52	15.08	15.01	15.57	16.04	14.52	15.08	15.01	15.57	16.04
	6H	14.40	14.87	14.92	15.39	15.88	14.40	14.87	14.92	15.39	15.88
	8H	14.35	14.77	14.86	15.27	15.84	14.35	14.77	14.86	15.27	15.84