

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: P866840

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866840
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-67)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-935-67L-G-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

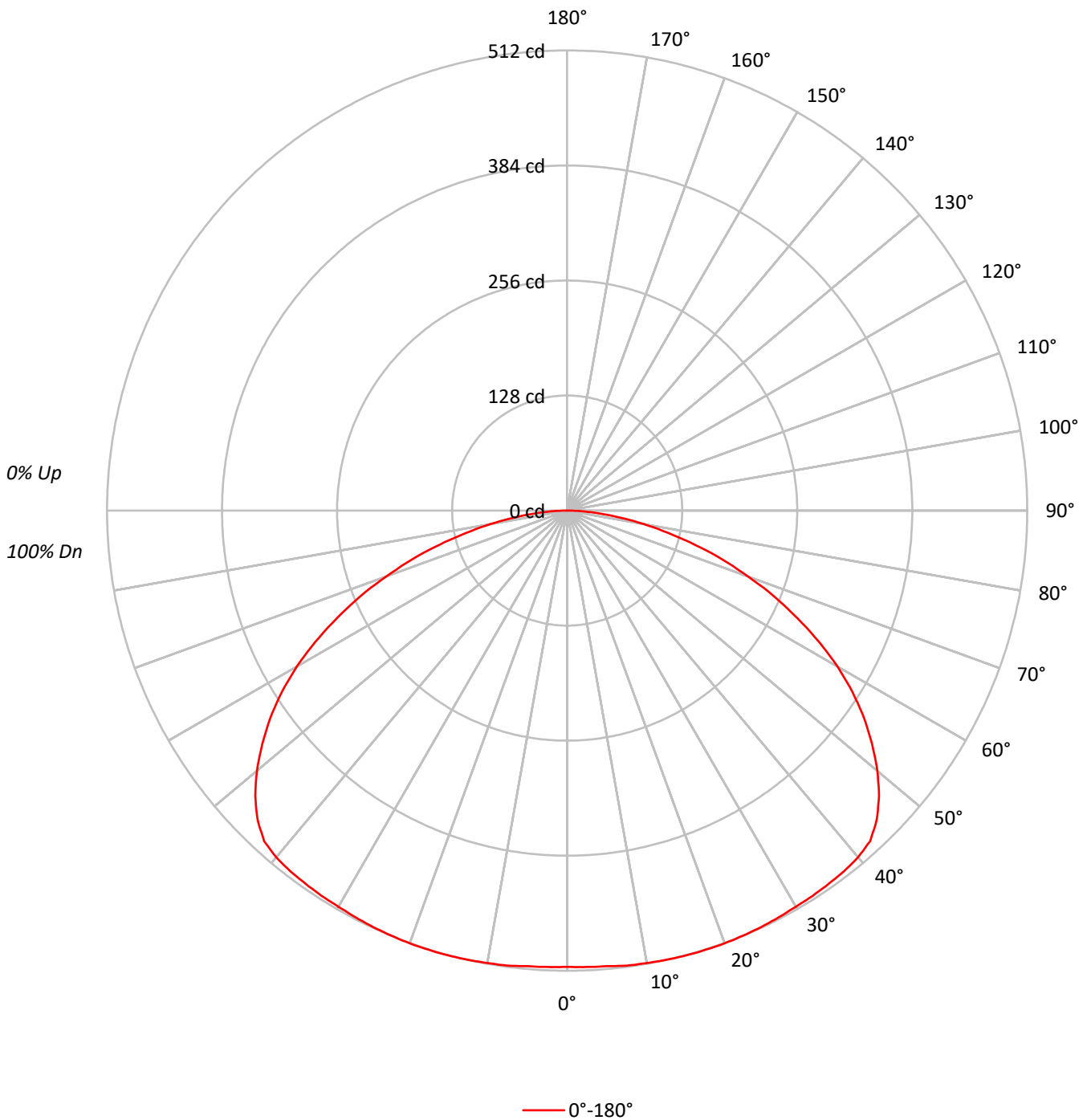
Lumens per Lamp: N/A
Luminaire Lumens: 1958.7 lumens
Efficiency: N/A
Efficacy: 38.9 lumens/watt
Spacing Criteria (0/90/45): 1.53 / 1.53 / 1.64
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 50.4
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	108	103	98	94	105	101	97	93	96	93	90		92	90	87		89	87	84	82
2	98	89	81	75	95	87	80	74	83	78	73		80	75	71		77	73	69	67
3	88	77	68	62	86	75	67	61	72	66	60		70	64	59		67	62	58	55
4	80	68	58	51	78	66	58	51	64	56	50		61	55	49		59	53	49	46
5	73	60	50	43	71	59	50	43	57	49	43		55	48	42		53	47	42	39
6	68	54	44	37	66	53	44	37	51	43	37		49	42	36		47	41	36	34
7	62	48	39	33	61	47	39	32	46	38	32		44	37	32		43	37	32	30
8	58	44	35	29	56	43	35	29	42	34	28		40	33	28		39	33	28	26
9	54	40	31	26	52	39	31	25	38	31	25		37	30	25		36	30	25	23
10	50	37	28	23	49	36	28	23	35	28	23		34	27	23		33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2776
5°	2793
10°	2838
15°	2900
20°	2981
25°	3084
30°	3212
35°	3384
40°	3594
45°	3766
50°	3833
55°	3848
60°	3797
65°	3649
70°	3419
75°	3116
80°	2720
85°	2139

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 3848 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.7	2.5
10°-20°	145.2	7.4
20°-30°	236.4	12.1
30°-40°	318.4	16.3
40°-50°	373.8	19.1
50°-60°	359.6	18.4
60°-70°	279.0	14.2
70°-80°	156.6	8.0
80°-90°	41.0	2.1
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
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0°-30°	430.3	22.0
0°-40°	748.7	38.2
0°-60°	1482.1	75.7
0°-90°	1958.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1958.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	508	
5°	509	49
15°	512	145
25°	511	236
35°	507	318
45°	487	374
55°	404	360
65°	282	279
75°	148	157
85°	34	41
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	507.7
2.5°	508.3
5°	508.9
7.5°	510.7
10°	511.2
12.5°	511.8
15°	512.4
17.5°	512.4
20°	512.4
22.5°	511.8
25°	511.2
27.5°	510.1
30°	508.9
32.5°	508.3
35°	507.1
37.5°	506.0
40°	503.6
42.5°	498.9
45°	487.1
47.5°	470.7
50°	450.7
52.5°	427.8
55°	403.7
57.5°	376.7
60°	347.3
62.5°	315.6
65°	282.1
67.5°	249.2
70°	213.9
72.5°	181.0
75°	147.5
77.5°	115.2
80°	86.4
82.5°	58.8
85°	34.1
87.5°	14.7
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	17.26	18.98	17.63	19.30	19.61	17.26	18.98	17.63	19.30	19.61
	3H	19.09	20.65	19.46	20.97	21.33	19.09	20.65	19.46	20.97	21.33
	4H	19.74	21.22	20.14	21.56	21.94	19.74	21.22	20.14	21.56	21.94
	6H	20.21	21.57	20.62	21.94	22.33	20.21	21.57	20.62	21.94	22.33
	8H	20.35	21.66	20.77	22.05	22.44	20.35	21.66	20.77	22.05	22.44
	12H	20.44	21.69	20.86	22.07	22.50	20.44	21.69	20.86	22.07	22.50
4H	2H	17.92	19.40	18.32	19.74	20.12	17.92	19.40	18.32	19.74	20.12
	3H	19.96	21.20	20.37	21.59	21.99	19.96	21.20	20.37	21.59	21.99
	4H	20.74	21.86	21.17	22.27	22.71	20.74	21.86	21.17	22.27	22.71
	6H	21.32	22.31	21.77	22.75	23.20	21.32	22.31	21.77	22.75	23.20
	8H	21.51	22.43	21.97	22.87	23.34	21.51	22.43	21.97	22.87	23.34
	12H	21.64	22.47	22.12	22.94	23.41	21.64	22.47	22.12	22.94	23.41
8H	4H	21.05	21.97	21.51	22.41	22.88	21.05	21.97	21.51	22.41	22.88
	6H	21.75	22.52	22.24	23.00	23.48	21.75	22.52	22.24	23.00	23.48
	8H	22.00	22.69	22.51	23.19	23.68	22.00	22.69	22.51	23.19	23.68
	12H	22.19	22.80	22.70	23.29	23.85	22.19	22.80	22.70	23.29	23.85
12H	4H	21.09	21.92	21.56	22.39	22.86	21.09	21.92	21.56	22.39	22.86
	6H	21.80	22.49	22.31	23.00	23.48	21.80	22.49	22.31	23.00	23.48
	8H	22.11	22.72	22.61	23.21	23.77	22.11	22.72	22.61	23.21	23.77