

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: P866016

Luminaire Tested: PRLX-2001-M-930-75L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866016
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-930-75L-L-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

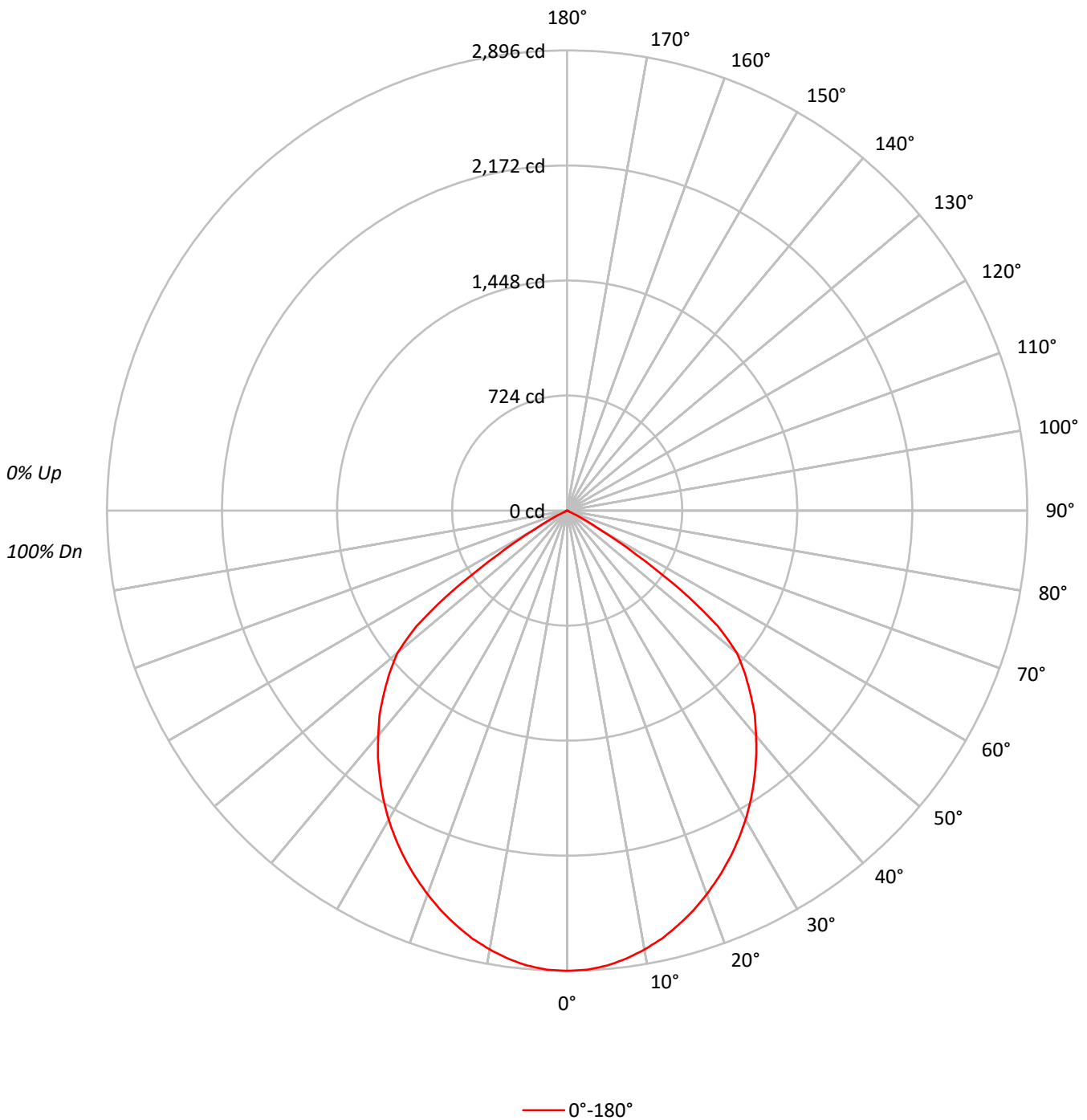
Lumens per Lamp: N/A
Luminaire Lumens: 5509.6 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	86	90	86	84	87	84	82	80
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	52	50
7	72	60	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	45
8	68	56	48	43	66	55	48	43	54	47	42	52	47	42	51	46	42	40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	24579
5°	24485
10°	24167
15°	23728
20°	23201
25°	22637
30°	22009
35°	21285
40°	20484
45°	19582
50°	18407
55°	12985
60°	4097
65°	281
70°	198
75°	197
80°	195
85°	195

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19582 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.1	4.9
10°-20°	760.9	13.8
20°-30°	1112.8	20.2
30°-40°	1284.4	23.3
40°-50°	1256.9	22.8
50°-60°	754.0	13.7
60°-70°	58.8	1.1
70°-80°	6.9	0.1
80°-90°	2.7	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°	2145.8	38.9
0°-40°	3430.3	62.3
0°-60°	5441.2	98.8
0°-90°	5509.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5509.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2896	
5°	2874	272
15°	2701	761
25°	2418	1113
35°	2055	1284
45°	1632	1257
55°	878	754
65°	14	59
75°	6	7
85°	2	3
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2896.4
2.5°	2892.4
5°	2874.4
7.5°	2844.5
10°	2804.6
12.5°	2758.7
15°	2700.9
17.5°	2639.0
20°	2569.2
22.5°	2495.4
25°	2417.6
27.5°	2333.8
30°	2246.1
32.5°	2152.3
35°	2054.6
37.5°	1954.8
40°	1849.1
42.5°	1747.4
45°	1631.7
47.5°	1516.0
50°	1394.3
52.5°	1196.8
55°	877.7
57.5°	516.6
60°	241.4
62.5°	95.7
65°	14.0
67.5°	8.0
70°	8.0
72.5°	8.0
75°	6.0
77.5°	6.0
80°	4.0
82.5°	4.0
85°	2.0
87.5°	2.0
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	17.59	18.96	17.95	19.28	19.59	17.59	18.96	17.95	19.28	19.59
	3H	17.47	18.67	17.85	19.00	19.37	17.47	18.67	17.85	19.00	19.37
	4H	17.40	18.52	17.80	18.87	19.25	17.40	18.52	17.80	18.87	19.25
	6H	17.33	18.35	17.74	18.72	19.11	17.33	18.35	17.74	18.72	19.11
	8H	17.29	18.25	17.71	18.64	19.05	17.29	18.25	17.71	18.64	19.05
	12H	17.24	18.17	17.68	18.55	18.98	17.24	18.17	17.68	18.55	18.98
4H	2H	17.40	18.52	17.80	18.87	19.25	17.40	18.52	17.80	18.87	19.25
	3H	17.28	18.18	17.69	18.58	18.98	17.28	18.18	17.69	18.58	18.98
	4H	17.20	17.99	17.63	18.41	18.85	17.20	17.99	17.63	18.41	18.85
	6H	17.12	17.80	17.58	18.25	18.72	17.12	17.80	17.58	18.25	18.72
	8H	17.06	17.70	17.53	18.15	18.62	17.06	17.70	17.53	18.15	18.62
	12H	17.02	17.58	17.50	18.06	18.54	17.02	17.58	17.50	18.06	18.54
8H	4H	17.06	17.70	17.53	18.15	18.62	17.06	17.70	17.53	18.15	18.62
	6H	16.95	17.48	17.46	17.98	18.46	16.95	17.48	17.46	17.98	18.46
	8H	16.89	17.37	17.41	17.88	18.37	16.89	17.37	17.41	17.88	18.37
	12H	16.84	17.27	17.35	17.76	18.33	16.84	17.27	17.35	17.76	18.33
12H	4H	17.01	17.58	17.50	18.06	18.53	17.01	17.58	17.50	18.06	18.53
	6H	16.89	17.37	17.41	17.88	18.37	16.89	17.37	17.41	17.88	18.37
	8H	16.83	17.27	17.35	17.76	18.33	16.83	17.27	17.35	17.76	18.33