

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: P866011

Luminaire Tested: PRLX-2001-M-930-65L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866011
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-930-65L-L-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

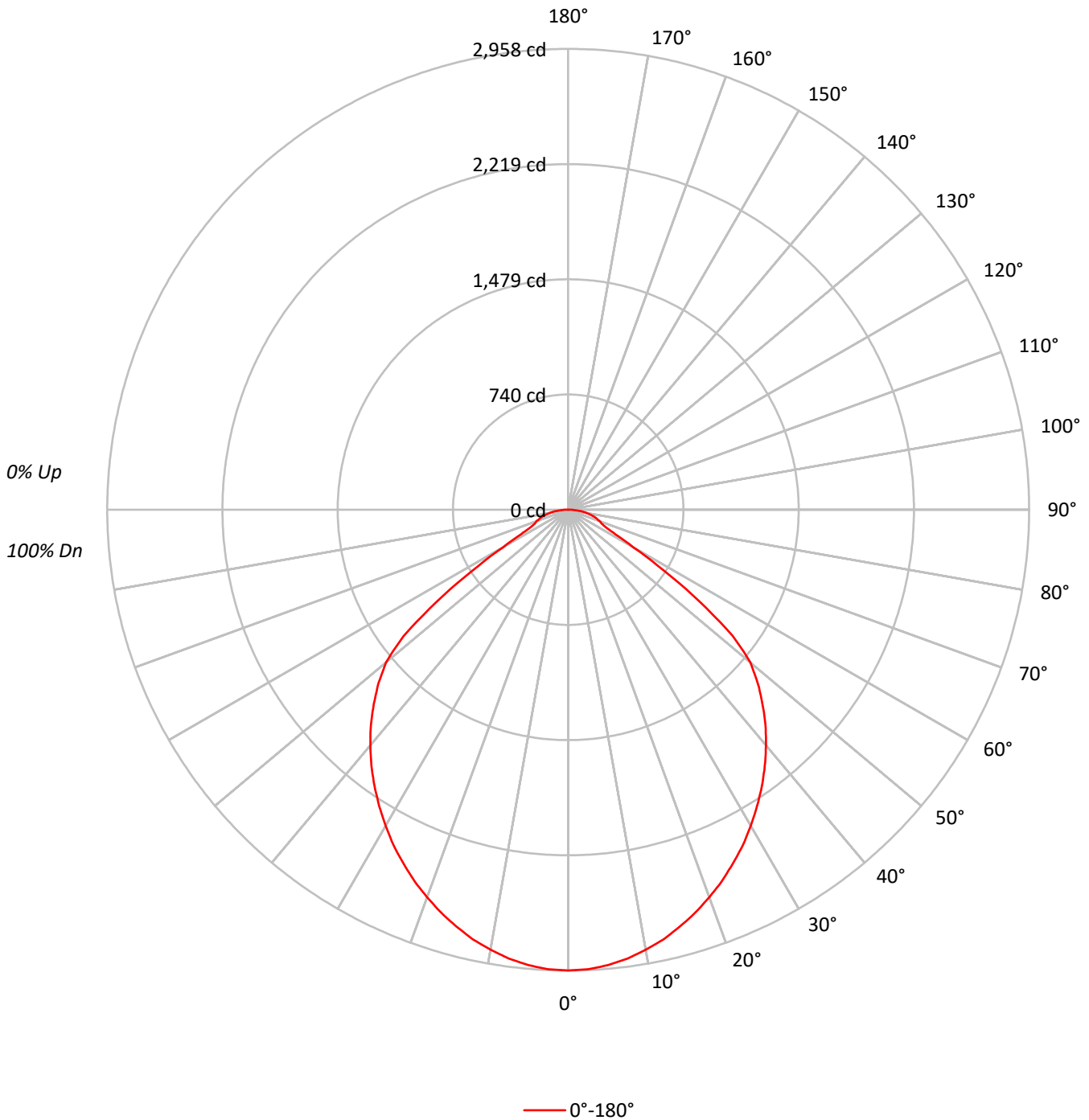
Lumens per Lamp: N/A
Luminaire Lumens: 6371.0 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.31
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 58.6
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: 0.333 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	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51
6	75	63	55	49	73	62	54	48	60	53	48	58	52	48	57	52	47	45
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	41
8	65	52	44	39	64	52	44	39	50	44	39	49	43	38	48	42	38	37
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	25101
5°	24990
10°	24713
15°	24331
20°	23902
25°	23439
30°	22954
35°	22441
40°	21871
45°	21163
50°	20130
55°	15245
60°	8186
65°	5277
70°	5320
75°	5610
80°	5830
85°	5891

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21163 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.0	4.4
10°-20°	780.9	12.3
20°-30°	1153.6	18.1
30°-40°	1354.5	21.3
40°-50°	1357.9	21.3
50°-60°	909.3	14.3
60°-70°	292.1	4.6
70°-80°	178.6	2.8
80°-90°	66.1	1.0
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°	2212.4	34.7
0°-40°	3566.9	56.0
0°-60°	5834.2	91.6
0°-90°	6371.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6371.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2958	
5°	2934	278
15°	2770	781
25°	2503	1154
35°	2166	1355
45°	1763	1358
55°	1030	909
65°	263	292
75°	171	179
85°	60	66
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2957.9
2.5°	2952.8
5°	2933.7
7.5°	2906.1
10°	2868.0
12.5°	2824.8
15°	2769.5
17.5°	2712.5
20°	2646.8
22.5°	2579.3
25°	2503.3
27.5°	2427.2
30°	2342.5
32.5°	2256.1
35°	2166.2
37.5°	2072.8
40°	1974.3
42.5°	1874.0
45°	1763.4
47.5°	1651.0
50°	1524.8
52.5°	1331.2
55°	1030.4
57.5°	731.3
60°	482.3
62.5°	340.6
65°	262.8
67.5°	231.7
70°	214.4
72.5°	193.6
75°	171.1
77.5°	145.2
80°	119.3
82.5°	91.6
85°	60.5
87.5°	31.1
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	19.48	20.95	19.84	21.27	21.58	19.48	20.95	19.84	21.27	21.58
	3H	19.96	21.27	20.34	21.60	21.96	19.96	21.27	20.34	21.60	21.96
	4H	20.28	21.50	20.68	21.85	22.23	20.28	21.50	20.68	21.85	22.23
	6H	20.61	21.73	21.02	22.10	22.49	20.61	21.73	21.02	22.10	22.49
	8H	20.74	21.82	21.17	22.21	22.61	20.74	21.82	21.17	22.21	22.61
	12H	20.85	21.88	21.28	22.26	22.69	20.85	21.88	21.28	22.26	22.69
4H	2H	19.51	20.74	19.91	21.09	21.47	19.51	20.74	19.91	21.09	21.47
	3H	20.22	21.22	20.63	21.62	22.03	20.22	21.22	20.63	21.62	22.03
	4H	20.70	21.59	21.13	22.01	22.45	20.70	21.59	21.13	22.01	22.45
	6H	21.19	21.97	21.65	22.42	22.88	21.19	21.97	21.65	22.42	22.88
	8H	21.40	22.13	21.87	22.58	23.04	21.40	22.13	21.87	22.58	23.04
	12H	21.58	22.23	22.06	22.71	23.18	21.58	22.23	22.06	22.71	23.18
8H	4H	20.86	21.59	21.32	22.03	22.50	20.86	21.59	21.32	22.03	22.50
	6H	21.49	22.10	21.99	22.59	23.07	21.49	22.10	21.99	22.59	23.07
	8H	21.79	22.34	22.30	22.85	23.34	21.79	22.34	22.30	22.85	23.34
	12H	22.05	22.54	22.56	23.04	23.60	22.05	22.54	22.56	23.04	23.60
12H	4H	20.87	21.52	21.36	22.00	22.48	20.87	21.52	21.36	22.00	22.48
	6H	21.53	22.08	22.05	22.59	23.08	21.53	22.08	22.05	22.59	23.08
	8H	21.89	22.38	22.40	22.88	23.44	21.89	22.38	22.40	22.88	23.44