

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: P866010

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866010
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-48)
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-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

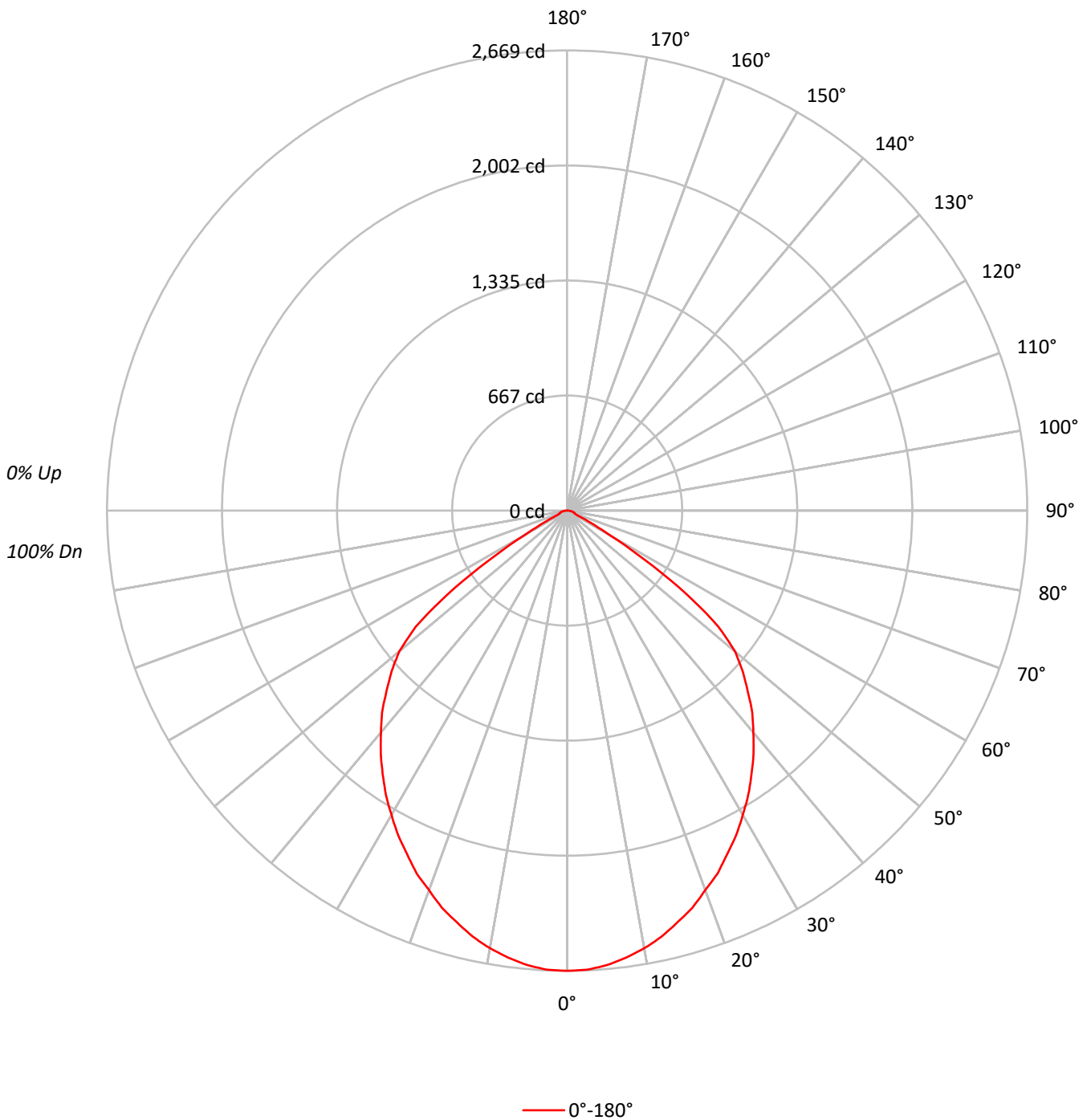
Lumens per Lamp: N/A
Luminaire Lumens: 5156.7 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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: 0.5 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	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	87	101	95	91	86	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	55
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49
7	72	60	52	46	70	59	52	46	57	51	46	56	50	46	55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36
10	59	47	39	35	58	46	39	35	45	39	34	44	39	34	44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	22651
5°	22547
10°	22211
15°	21719
20°	21154
25°	20574
30°	19972
35°	19325
40°	18615
45°	17781
50°	16776
55°	12558
60°	4959
65°	1353
70°	1159
75°	1246
80°	1354
85°	1344

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17781 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.4	4.9
10°-20°	696.7	13.5
20°-30°	1012.9	19.6
30°-40°	1166.5	22.6
40°-50°	1143.2	22.2
50°-60°	726.3	14.1
60°-70°	105.8	2.1
70°-80°	39.9	0.8
80°-90°	15.0	0.3
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°	1959.9	38.0
0°-40°	3126.4	60.6
0°-60°	4995.9	96.9
0°-90°	5156.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5156.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2669	
5°	2647	250
15°	2472	697
25°	2197	1013
35°	1865	1166
45°	1482	1143
55°	849	726
65°	67	106
75°	38	40
85°	14	15
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2669.2
2.5°	2665.8
5°	2646.8
7.5°	2615.6
10°	2577.6
12.5°	2530.9
15°	2472.2
17.5°	2415.1
20°	2342.5
22.5°	2278.5
25°	2197.3
27.5°	2122.9
30°	2038.2
32.5°	1955.3
35°	1865.4
37.5°	1775.5
40°	1680.4
42.5°	1588.8
45°	1481.6
47.5°	1381.3
50°	1270.7
52.5°	1106.4
55°	848.8
57.5°	541.1
60°	292.2
62.5°	146.9
65°	67.4
67.5°	48.4
70°	46.7
72.5°	43.2
75°	38.0
77.5°	32.8
80°	27.7
82.5°	20.7
85°	13.8
87.5°	6.9
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	18.15	19.55	18.51	19.86	20.18	18.15	19.55	18.51	19.86	20.18
	3H	18.08	19.31	18.46	19.64	20.01	18.08	19.31	18.46	19.64	20.01
	4H	18.05	19.20	18.46	19.55	19.93	18.05	19.20	18.46	19.55	19.93
	6H	18.03	19.08	18.45	19.45	19.85	18.03	19.08	18.45	19.45	19.85
	8H	18.02	19.01	18.45	19.40	19.81	18.02	19.01	18.45	19.40	19.81
	12H	18.00	18.95	18.43	19.33	19.76	18.00	18.95	18.43	19.33	19.76
4H	2H	17.99	19.13	18.39	19.48	19.87	17.99	19.13	18.39	19.48	19.87
	3H	17.95	18.87	18.36	19.28	19.68	17.95	18.87	18.36	19.28	19.68
	4H	17.94	18.76	18.37	19.18	19.62	17.94	18.76	18.37	19.18	19.62
	6H	17.95	18.66	18.41	19.10	19.57	17.95	18.66	18.41	19.10	19.57
	8H	17.94	18.60	18.41	19.05	19.52	17.94	18.60	18.41	19.05	19.52
	12H	17.93	18.52	18.42	19.00	19.47	17.93	18.52	18.42	19.00	19.47
8H	4H	17.85	18.51	18.31	18.95	19.43	17.85	18.51	18.31	18.95	19.43
	6H	17.87	18.41	18.37	18.91	19.39	17.87	18.41	18.37	18.91	19.39
	8H	17.87	18.37	18.39	18.88	19.37	17.87	18.37	18.39	18.88	19.37
	12H	17.88	18.33	18.39	18.82	19.39	17.88	18.33	18.39	18.82	19.39
12H	4H	17.81	18.40	18.29	18.88	19.35	17.81	18.40	18.29	18.88	19.35
	6H	17.82	18.32	18.34	18.83	19.32	17.82	18.32	18.34	18.83	19.32
	8H	17.85	18.30	18.36	18.79	19.36	17.85	18.30	18.36	18.79	19.36