

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: P866203

Luminaire Tested: PRLX-2002-M-927-65L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866203
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-50)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-927-65L-L-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

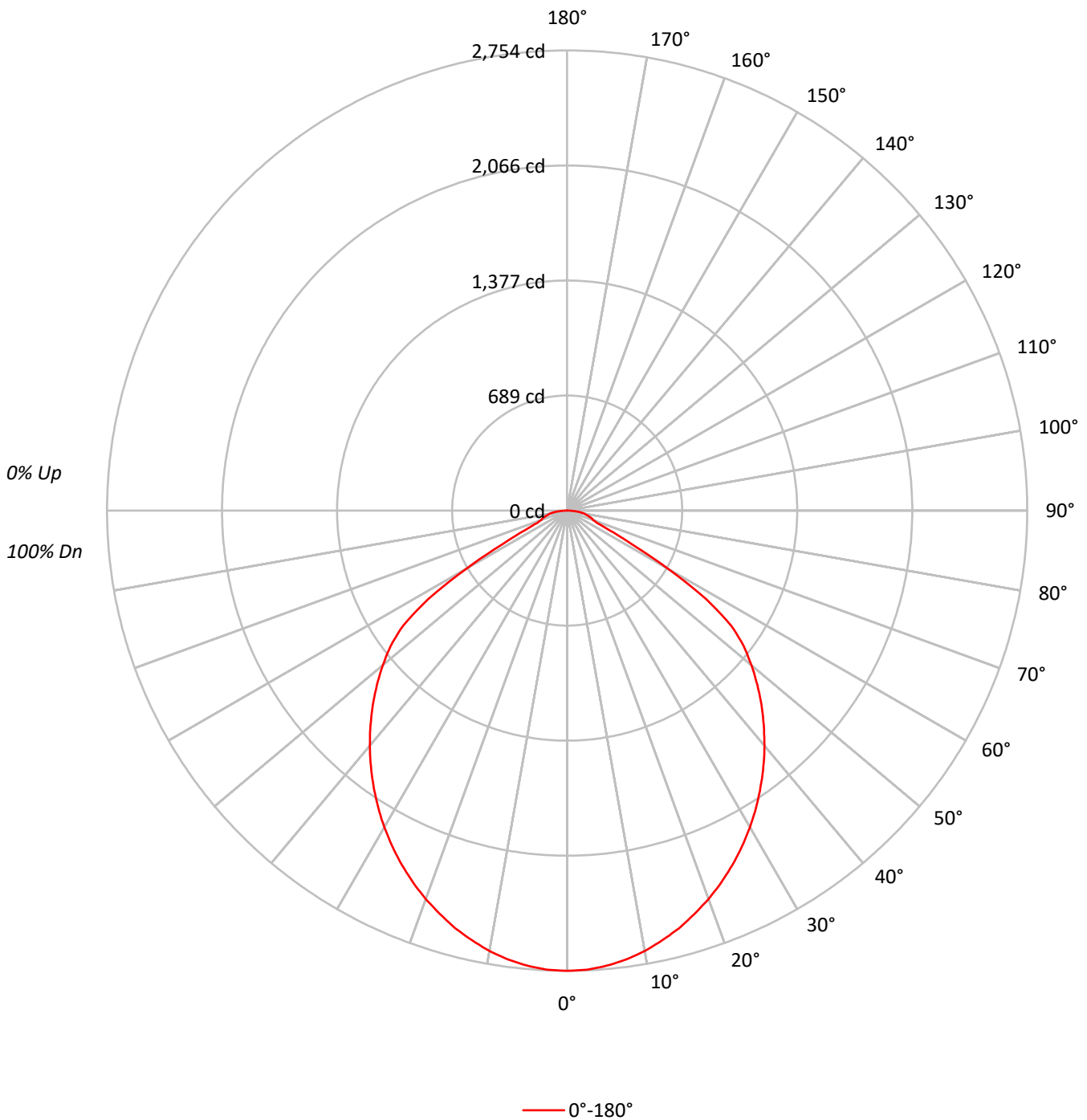
Lumens per Lamp: N/A
Luminaire Lumens: 6151.5 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P866203

CATALOG NUMBER: PRLX-2002-M-927-65L-L-U-S-X-X-WHHR-X

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	89	87
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78	76
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66
4	87	76	68	62	84	75	67	62	72	66	61	70	64	60	68	63	59	57
5	80	68	60	54	78	67	60	54	65	58	53	63	57	53	62	56	52	50
6	74	62	54	48	72	61	53	48	59	52	47	58	51	47	56	51	46	44
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	40
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	47	40	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	21912
5°	21837
10°	21624
15°	21313
20°	20945
25°	20544
30°	20105
35°	19606
40°	19081
45°	18500
50°	17820
55°	16607
60°	11152
65°	5279
70°	3875
75°	4156
80°	4609
85°	5121

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18500 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.2	4.2
10°-20°	729.0	11.9
20°-30°	1077.7	17.5
30°-40°	1262.7	20.5
40°-50°	1267.5	20.6
50°-60°	1022.9	16.6
60°-70°	330.7	5.4
70°-80°	142.8	2.3
80°-90°	59.0	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°	2065.9	33.6
0°-40°	3328.6	54.1
0°-60°	5619.0	91.3
0°-90°	6151.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6151.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2754	
5°	2734	259
15°	2588	729
25°	2340	1078
35°	2019	1263
45°	1644	1267
55°	1197	1023
65°	280	331
75°	135	143
85°	56	59
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2754.2
2.5°	2750.9
5°	2734.4
7.5°	2709.7
10°	2676.7
12.5°	2633.8
15°	2587.7
17.5°	2531.6
20°	2473.9
22.5°	2409.5
25°	2340.3
27.5°	2266.1
30°	2188.5
32.5°	2106.1
35°	2018.7
37.5°	1929.6
40°	1837.3
42.5°	1741.6
45°	1644.3
47.5°	1543.7
50°	1439.8
52.5°	1332.6
55°	1197.3
57.5°	987.9
60°	700.9
62.5°	438.7
65°	280.4
67.5°	193.0
70°	166.6
72.5°	153.4
75°	135.2
77.5°	118.7
80°	100.6
82.5°	80.8
85°	56.1
87.5°	29.7
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	21.46	22.96	21.83	23.27	23.59	21.46	22.96	21.83	23.27	23.59
	3H	21.57	22.90	21.95	23.23	23.59	21.57	22.90	21.95	23.23	23.59
	4H	21.66	22.90	22.06	23.25	23.63	21.66	22.90	22.06	23.25	23.63
	6H	21.77	22.92	22.18	23.28	23.67	21.77	22.92	22.18	23.28	23.67
	8H	21.83	22.91	22.25	23.30	23.71	21.83	22.91	22.25	23.30	23.71
	12H	21.87	22.92	22.31	23.30	23.73	21.87	22.92	22.31	23.30	23.73
4H	2H	21.42	22.67	21.83	23.02	23.40	21.42	22.67	21.83	23.02	23.40
	3H	21.63	22.65	22.04	23.05	23.45	21.63	22.65	22.04	23.05	23.45
	4H	21.79	22.70	22.22	23.11	23.55	21.79	22.70	22.22	23.11	23.55
	6H	22.01	22.79	22.46	23.24	23.70	22.01	22.79	22.46	23.24	23.70
	8H	22.11	22.85	22.57	23.29	23.76	22.11	22.85	22.57	23.29	23.76
	12H	22.21	22.87	22.69	23.35	23.82	22.21	22.87	22.69	23.35	23.82
8H	4H	21.80	22.54	22.27	22.98	23.45	21.80	22.54	22.27	22.98	23.45
	6H	22.10	22.71	22.60	23.21	23.68	22.10	22.71	22.60	23.21	23.68
	8H	22.27	22.82	22.78	23.33	23.82	22.27	22.82	22.78	23.33	23.82
	12H	22.44	22.94	22.95	23.43	24.00	22.44	22.94	22.95	23.43	24.00
12H	4H	21.79	22.45	22.28	22.93	23.40	21.79	22.45	22.28	22.93	23.40
	6H	22.10	22.66	22.62	23.17	23.66	22.10	22.66	22.62	23.17	23.66
	8H	22.32	22.82	22.83	23.31	23.88	22.32	22.82	22.83	23.31	23.88