

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: P866923

Luminaire Tested: PRLX-2002-L-927-100L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866923
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-68)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-L-927-100L-G-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

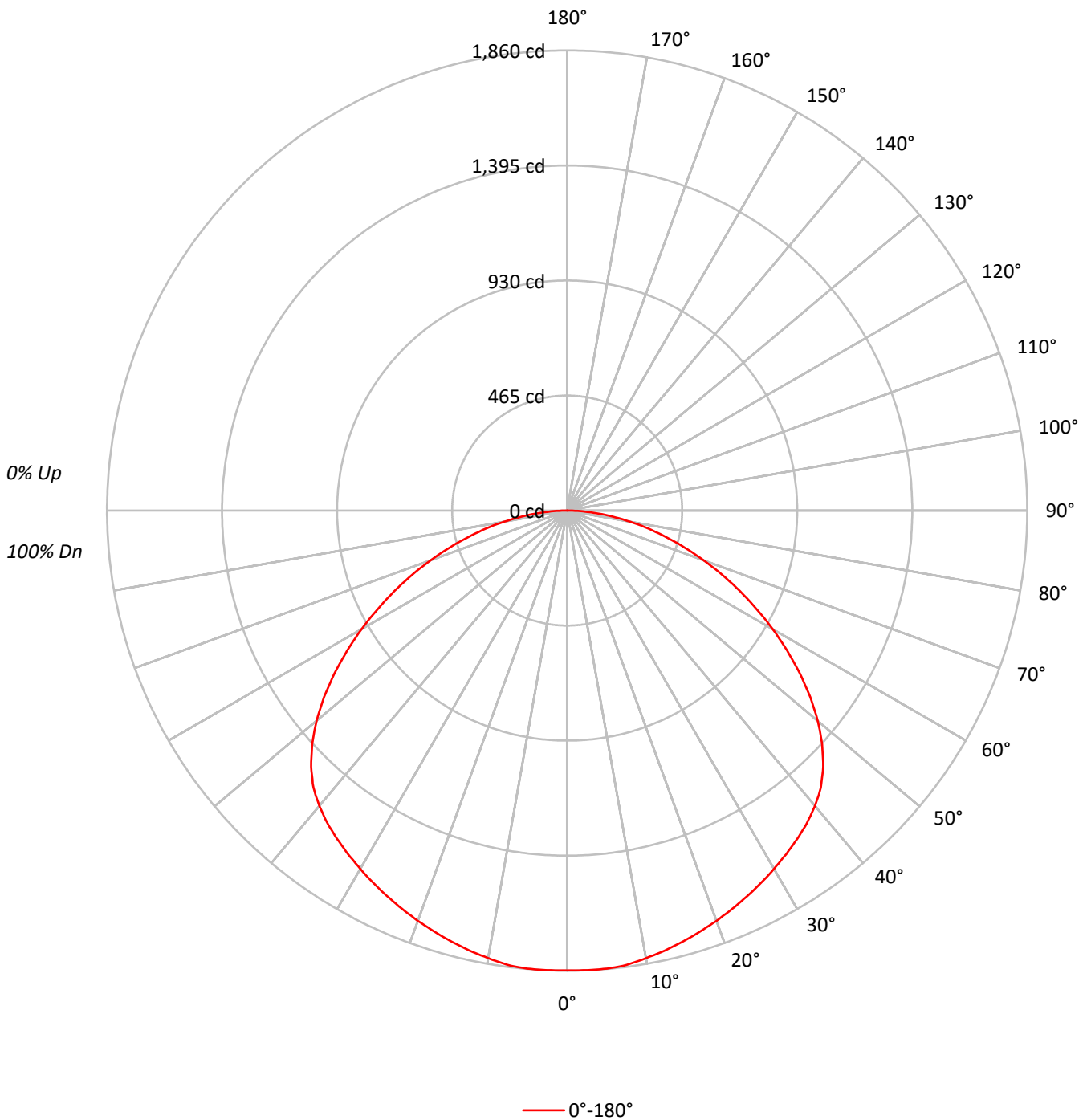
Lumens per Lamp: N/A
Luminaire Lumens: 5981.2 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.49
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P866923

CATALOG NUMBER: PRLX-2002-L-927-100L-G-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	108	103	99	95	106	101	97	93	97	94	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	48
5	75	62	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	42
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	9171
5°	9206
10°	9203
15°	9215
20°	9265
25°	9366
30°	9526
35°	9761
40°	10038
45°	10213
50°	10154
55°	9884
60°	9473
65°	8990
70°	8450
75°	7884
80°	7316
85°	6516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10213 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.8	3.0
10°-20°	510.0	8.5
20°-30°	794.7	13.3
30°-40°	1015.6	17.0
40°-50°	1124.4	18.8
50°-60°	1024.8	17.1
60°-70°	763.5	12.8
70°-80°	440.7	7.4
80°-90°	130.7	2.2
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°	1481.5	24.8
0°-40°	2497.1	41.7
0°-60°	4646.3	77.7
0°-90°	5981.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5981.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1859	
5°	1859	177
15°	1804	510
25°	1720	795
35°	1621	1016
45°	1464	1124
55°	1149	1025
65°	770	764
75°	414	441
85°	115	131
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1858.8
2.5°	1859.6
5°	1858.8
7.5°	1852.3
10°	1837.0
12.5°	1821.7
15°	1804.0
17.5°	1784.7
20°	1764.6
22.5°	1742.9
25°	1720.4
27.5°	1697.0
30°	1672.1
32.5°	1647.1
35°	1620.6
37.5°	1592.4
40°	1558.6
42.5°	1518.4
45°	1463.7
47.5°	1397.7
50°	1322.9
52.5°	1238.4
55°	1149.0
57.5°	1054.1
60°	960.0
62.5°	865.0
65°	770.1
67.5°	678.3
70°	585.8
72.5°	499.7
75°	413.6
77.5°	336.3
80°	257.5
82.5°	183.5
85°	115.1
87.5°	53.1
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	20.23	21.90	20.59	22.22	22.53	20.23	21.90	20.59	22.22	22.53
	3H	21.98	23.50	22.35	23.82	24.18	21.98	23.50	22.35	23.82	24.18
	4H	22.64	24.07	23.04	24.42	24.80	22.64	24.07	23.04	24.42	24.80
	6H	23.16	24.49	23.57	24.85	25.24	23.16	24.49	23.57	24.85	25.24
	8H	23.33	24.61	23.76	24.99	25.39	23.33	24.61	23.76	24.99	25.39
	12H	23.46	24.68	23.89	25.06	25.49	23.46	24.68	23.89	25.06	25.49
4H	2H	20.85	22.28	21.24	22.63	23.00	20.85	22.28	21.24	22.63	23.00
	3H	22.82	24.03	23.23	24.42	24.82	22.82	24.03	23.23	24.42	24.82
	4H	23.62	24.71	24.05	25.12	25.56	23.62	24.71	24.05	25.12	25.56
	6H	24.27	25.23	24.73	25.67	26.12	24.27	25.23	24.73	25.67	26.12
	8H	24.50	25.40	24.96	25.84	26.30	24.50	25.40	24.96	25.84	26.30
	12H	24.67	25.48	25.15	25.95	26.42	24.67	25.48	25.15	25.95	26.42
8H	4H	23.94	24.84	24.40	25.28	25.74	23.94	24.84	24.40	25.28	25.74
	6H	24.73	25.47	25.22	25.96	26.43	24.73	25.47	25.22	25.96	26.43
	8H	25.03	25.70	25.54	26.21	26.69	25.03	25.70	25.54	26.21	26.69
	12H	25.28	25.88	25.79	26.37	26.93	25.28	25.88	25.79	26.37	26.93
12H	4H	23.98	24.79	24.46	25.26	25.73	23.98	24.79	24.46	25.26	25.73
	6H	24.79	25.46	25.30	25.97	26.45	24.79	25.46	25.30	25.97	26.45
	8H	25.16	25.75	25.66	26.24	26.80	25.16	25.75	25.66	26.24	26.80