

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: P865647

Luminaire Tested: PRLX-2002-S-930-25L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865647
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-S-930-25L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

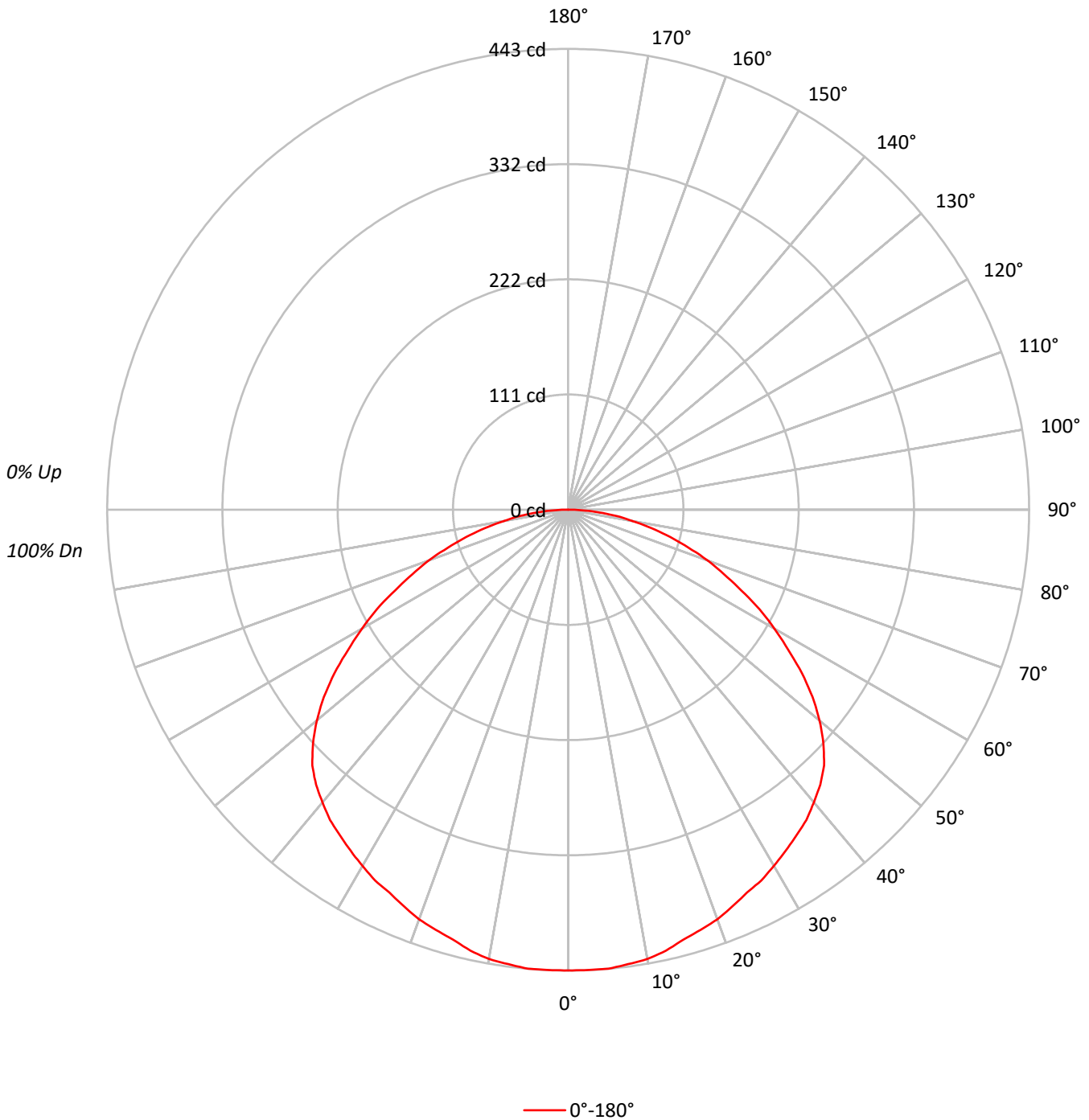
Lumens per Lamp: N/A
Luminaire Lumens: 1426.2 lumens
Efficiency: N/A
Efficacy: 49.0 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.49
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 29.1
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: P865647

CATALOG NUMBER: PRLX-2002-S-930-25L-G-U-S-X-X-WHHR-X

Luminous Intensity Polar Plot



TEST NUMBER: P865647

CATALOG NUMBER: PRLX-2002-S-930-25L-G-U-S-X-X-WHHR-X

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	93	90	93	90	87	89	87	85	83
2	98	90	82	76	95	88	81	76	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	51	44	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31
8	59	45	37	31	57	45	36	30	43	36	30	42	35	30	41	34	30	28
9	55	41	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	29	24	36	29	24	35	29	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	8320
5°	8351
10°	8366
15°	8319
20°	8378
25°	8419
30°	8576
35°	8769
40°	9007
45°	9239
50°	9217
55°	8986
60°	8603
65°	8161
70°	7832
75°	7367
80°	6783
85°	6509

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 9250 cd/sqm

TEST NUMBER: P865647

CATALOG NUMBER: PRLX-2002-S-930-25L-G-U-S-X-X-WHHR-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.1	3.0
10°-20°	121.2	8.5
20°-30°	188.1	13.2
30°-40°	239.7	16.8
40°-50°	266.7	18.7
50°-60°	244.4	17.1
60°-70°	182.8	12.8
70°-80°	107.4	7.5
80°-90°	33.8	2.4
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°	351.4	24.6
0°-40°	591.1	41.4
0°-60°	1102.2	77.3
0°-90°	1426.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1426.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	443	
5°	443	42
15°	428	121
25°	406	188
35°	382	240
45°	348	267
55°	274	244
65°	184	183
75°	102	107
85°	30	34
90°	0	

TEST NUMBER: P865647

CATALOG NUMBER: PRLX-2002-S-930-25L-G-U-S-X-X-WHHR-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	442.9
2.5°	442.9
5°	442.9
7.5°	440.7
10°	438.6
12.5°	434.2
15°	427.8
17.5°	423.4
20°	419.1
22.5°	412.6
25°	406.2
27.5°	401.8
30°	395.4
32.5°	388.9
35°	382.4
37.5°	375.9
40°	367.3
42.5°	358.6
45°	347.8
47.5°	332.7
50°	315.4
52.5°	296.0
55°	274.4
57.5°	250.6
60°	229.0
62.5°	207.4
65°	183.6
67.5°	162.0
70°	142.6
72.5°	121.0
75°	101.5
77.5°	82.1
80°	62.7
82.5°	47.5
85°	30.2
87.5°	15.1
90°	0.0

TEST NUMBER: P865647

CATALOG NUMBER: PRLX-2002-S-930-25L-G-U-S-X-X-WHHR-X

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	19.87	21.55	20.23	21.86	22.18	19.87	21.55	20.23	21.86	22.18
	3H	21.65	23.17	22.03	23.50	23.86	21.65	23.17	22.03	23.50	23.86
	4H	22.34	23.78	22.74	24.13	24.50	22.34	23.78	22.74	24.13	24.50
	6H	22.88	24.22	23.29	24.58	24.97	22.88	24.22	23.29	24.58	24.97
	8H	23.08	24.35	23.50	24.74	25.14	23.08	24.35	23.50	24.74	25.14
	12H	23.22	24.45	23.65	24.83	25.26	23.22	24.45	23.65	24.83	25.26
4H	2H	20.49	21.93	20.89	22.27	22.65	20.49	21.93	20.89	22.27	22.65
	3H	22.51	23.72	22.92	24.12	24.51	22.51	23.72	22.92	24.12	24.51
	4H	23.34	24.44	23.77	24.85	25.28	23.34	24.44	23.77	24.85	25.28
	6H	24.01	24.97	24.46	25.41	25.87	24.01	24.97	24.46	25.41	25.87
	8H	24.27	25.17	24.72	25.61	26.07	24.27	25.17	24.72	25.61	26.07
	12H	24.47	25.28	24.95	25.75	26.22	24.47	25.28	24.95	25.75	26.22
8H	4H	23.67	24.58	24.13	25.02	25.48	23.67	24.58	24.13	25.02	25.48
	6H	24.48	25.23	24.97	25.72	26.19	24.48	25.23	24.97	25.72	26.19
	8H	24.82	25.50	25.33	26.00	26.49	24.82	25.50	25.33	26.00	26.49
	12H	25.11	25.71	25.62	26.20	26.76	25.11	25.71	25.62	26.20	26.76
12H	4H	23.72	24.53	24.20	25.00	25.47	23.72	24.53	24.20	25.00	25.47
	6H	24.55	25.23	25.06	25.73	26.22	24.55	25.23	25.06	25.73	26.22
	8H	24.96	25.56	25.46	26.05	26.61	24.96	25.56	25.46	26.05	26.61