

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: P866275

Luminaire Tested: PRLX-2002-M-930-75L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866275
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: PrentaLux
Catalog Number: PRLX-2002-M-930-75L-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 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

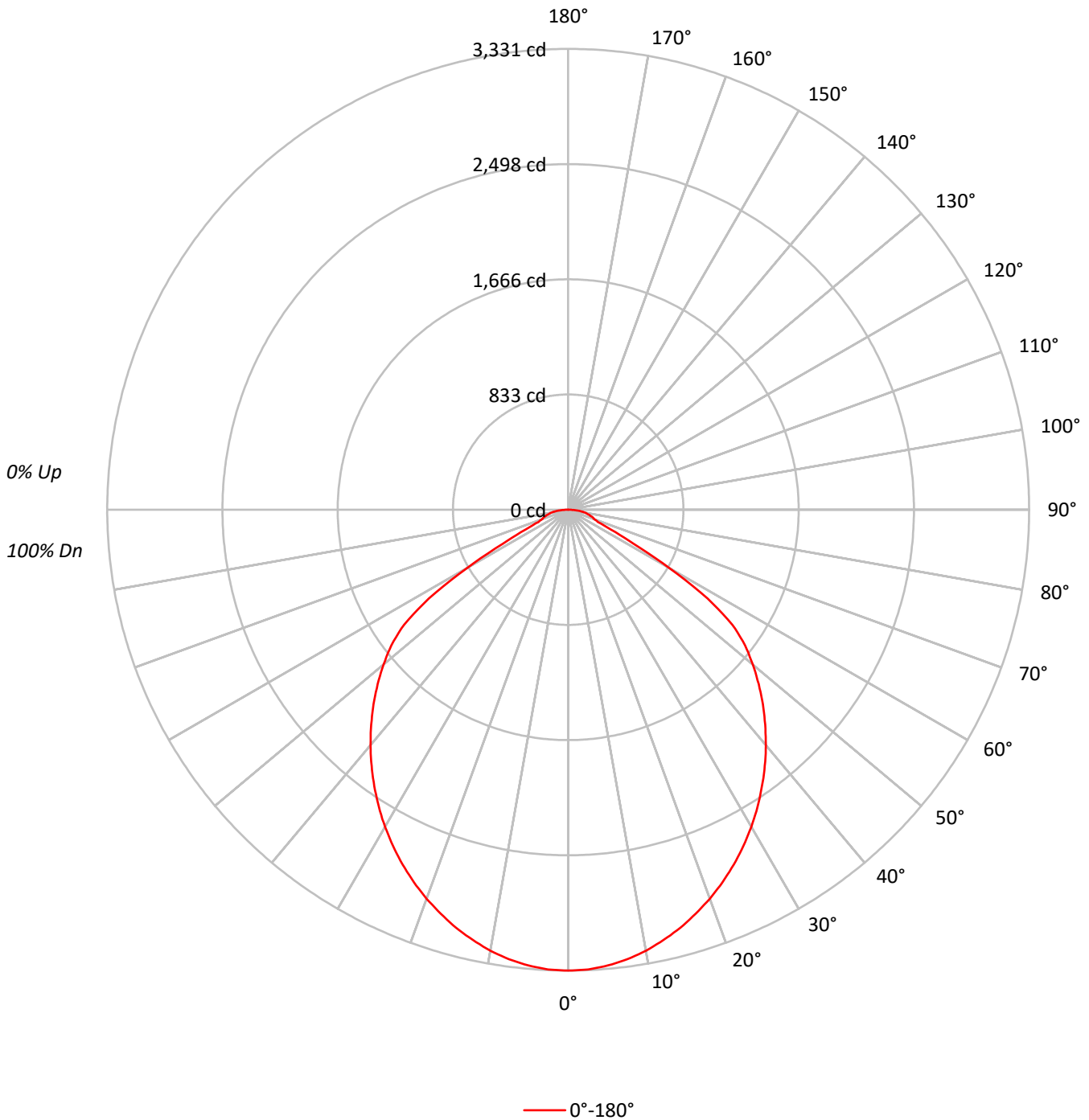
Lumens per Lamp: N/A
Luminaire Lumens: 7440.2 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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: P866275

CATALOG NUMBER: PRLX-2002-M-930-75L-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°	26502
5°	26413
10°	26154
15°	25778
20°	25332
25°	24847
30°	24317
35°	23713
40°	23078
45°	22376
50°	21553
55°	20087
60°	13490
65°	6384
70°	4687
75°	5029
80°	5576
85°	6189

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22376 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.5	4.2
10°-20°	881.7	11.9
20°-30°	1303.5	17.5
30°-40°	1527.2	20.5
40°-50°	1533.0	20.6
50°-60°	1237.3	16.6
60°-70°	399.9	5.4
70°-80°	172.7	2.3
80°-90°	71.4	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°	2498.7	33.6
0°-40°	4025.9	54.1
0°-60°	6796.2	91.3
0°-90°	7440.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7440.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3331	
5°	3307	313
15°	3130	882
25°	2830	1304
35°	2442	1527
45°	1989	1533
55°	1448	1237
65°	339	400
75°	164	173
85°	68	71
90°	0	

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CATALOG NUMBER: PRLX-2002-M-930-75L-L-U-S-X-X-WHHR-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	3331.2
2.5°	3327.2
5°	3307.3
7.5°	3277.4
10°	3237.5
12.5°	3185.6
15°	3129.8
17.5°	3061.9
20°	2992.1
22.5°	2914.3
25°	2830.5
27.5°	2740.8
30°	2647.0
32.5°	2547.3
35°	2441.6
37.5°	2333.9
40°	2222.1
42.5°	2106.5
45°	1988.8
47.5°	1867.1
50°	1741.4
52.5°	1611.8
55°	1448.2
57.5°	1194.9
60°	847.8
62.5°	530.6
65°	339.1
67.5°	233.4
70°	201.5
72.5°	185.5
75°	163.6
77.5°	143.6
80°	121.7
82.5°	97.7
85°	67.8
87.5°	35.9
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	22.12	23.62	22.49	23.93	24.25	22.12	23.62	22.49	23.93	24.25
	3H	22.23	23.56	22.61	23.89	24.25	22.23	23.56	22.61	23.89	24.25
	4H	22.32	23.56	22.72	23.91	24.29	22.32	23.56	22.72	23.91	24.29
	6H	22.43	23.58	22.84	23.94	24.34	22.43	23.58	22.84	23.94	24.34
	8H	22.49	23.58	22.91	23.97	24.37	22.49	23.58	22.91	23.97	24.37
	12H	22.54	23.58	22.97	23.96	24.39	22.54	23.58	22.97	23.96	24.39
4H	2H	22.09	23.33	22.49	23.68	24.06	22.09	23.33	22.49	23.68	24.06
	3H	22.29	23.31	22.70	23.71	24.11	22.29	23.31	22.70	23.71	24.11
	4H	22.45	23.36	22.88	23.77	24.21	22.45	23.36	22.88	23.77	24.21
	6H	22.67	23.46	23.13	23.90	24.36	22.67	23.46	23.13	23.90	24.36
	8H	22.77	23.51	23.24	23.95	24.42	22.77	23.51	23.24	23.95	24.42
	12H	22.87	23.53	23.36	24.01	24.48	22.87	23.53	23.36	24.01	24.48
8H	4H	22.46	23.20	22.93	23.65	24.11	22.46	23.20	22.93	23.65	24.11
	6H	22.76	23.37	23.26	23.87	24.35	22.76	23.37	23.26	23.87	24.35
	8H	22.93	23.48	23.44	23.99	24.48	22.93	23.48	23.44	23.99	24.48
	12H	23.10	23.60	23.62	24.09	24.66	23.10	23.60	23.62	24.09	24.66
12H	4H	22.45	23.11	22.94	23.59	24.06	22.45	23.11	22.94	23.59	24.06
	6H	22.76	23.32	23.28	23.83	24.32	22.76	23.32	23.28	23.83	24.32
	8H	22.98	23.48	23.49	23.97	24.54	22.98	23.48	23.49	23.97	24.54