

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: P866255

Luminaire Tested: PRLX-2002-M-930-55L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866255
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-38)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-930-55L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

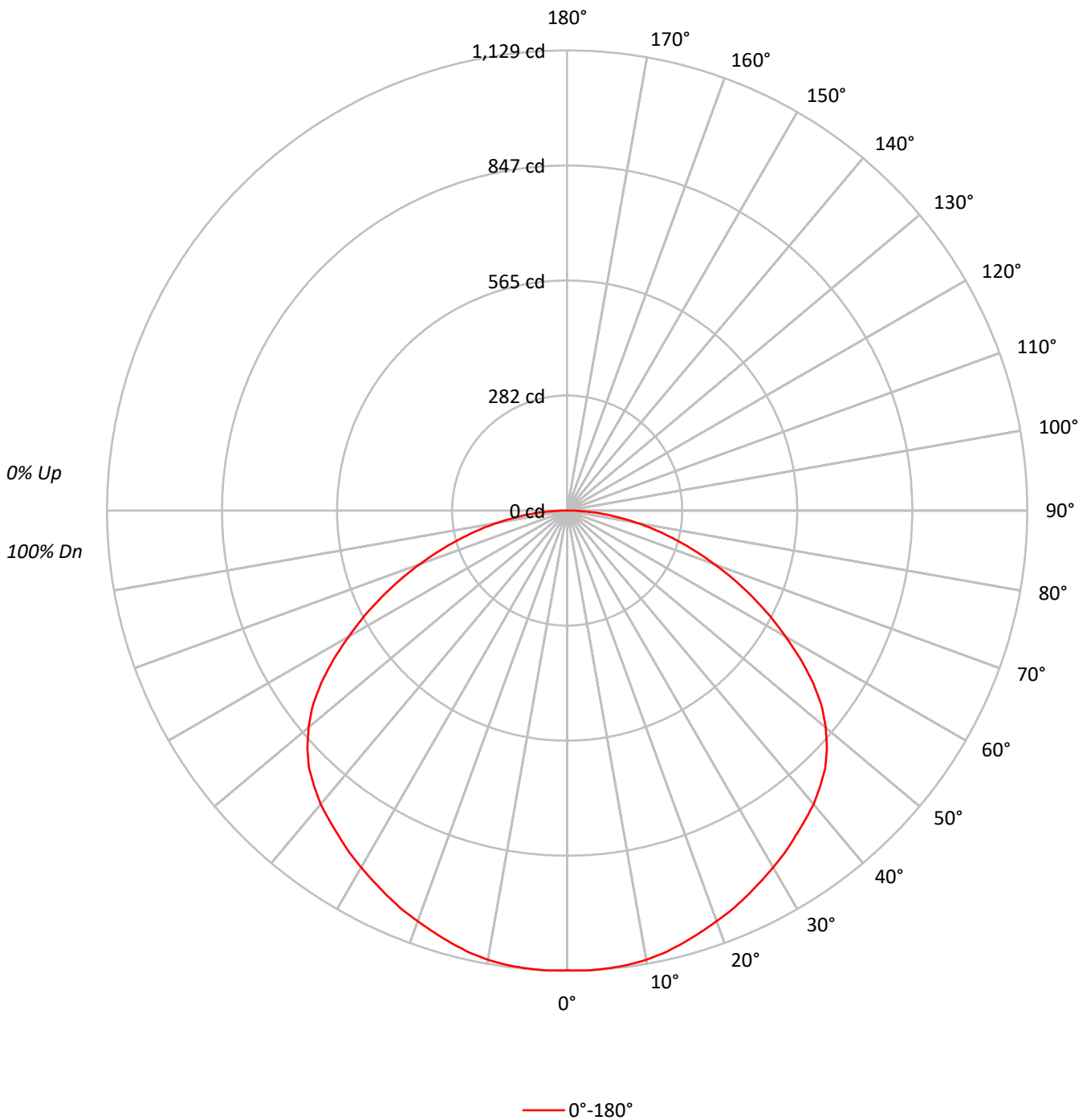
Lumens per Lamp: N/A
Luminaire Lumens: 3734.9 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.5
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 48.3
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: P866255

CATALOG NUMBER: PRLX-2002-M-930-55L-G-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	108	103	99	94	105	101	97	93	96	93	90		93	90	87		89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	60		68	63	59	56
4	81	68	59	52	79	67	59	52	65	57	51		62	56	50		60	54	50	48
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33		45	38	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		41	35	30		40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27		38	31	26		37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24		35	29	24		34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	8973
5°	9007
10°	9041
15°	9049
20°	9078
25°	9156
30°	9286
35°	9476
40°	9769
45°	10072
50°	10248
55°	10206
60°	9846
65°	9444
70°	8949
75°	8453
80°	7976
85°	7476

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 10285 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.4	2.9
10°-20°	310.4	8.3
20°-30°	481.7	12.9
30°-40°	612.3	16.4
40°-50°	688.6	18.4
50°-60°	654.2	17.5
60°-70°	496.9	13.3
70°-80°	292.0	7.8
80°-90°	91.4	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°	899.5	24.1
0°-40°	1511.8	40.5
0°-60°	2854.6	76.4
0°-90°	3734.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3734.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1128	
5°	1128	107
15°	1099	310
25°	1043	482
35°	976	612
45°	895	689
55°	736	654
65°	502	497
75°	275	292
85°	82	91
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1127.8
2.5°	1129.3
5°	1127.8
7.5°	1124.9
10°	1119.1
12.5°	1110.3
15°	1098.6
17.5°	1085.4
20°	1072.2
22.5°	1059.1
25°	1043.0
27.5°	1026.9
30°	1010.8
32.5°	994.7
35°	975.7
37.5°	958.1
40°	940.6
42.5°	918.6
45°	895.2
47.5°	864.5
50°	828.0
52.5°	787.0
55°	735.8
57.5°	678.7
60°	618.8
62.5°	561.7
65°	501.7
67.5°	443.2
70°	384.7
72.5°	329.1
75°	275.0
77.5°	223.8
80°	174.1
82.5°	125.8
85°	81.9
87.5°	41.0
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	20.44	22.14	20.81	22.45	22.76	20.44	22.14	20.81	22.45	22.76
	3H	22.24	23.78	22.62	24.10	24.46	22.24	23.78	22.62	24.10	24.46
	4H	22.93	24.39	23.33	24.73	25.11	22.93	24.39	23.33	24.73	25.11
	6H	23.48	24.83	23.89	25.19	25.58	23.48	24.83	23.89	25.19	25.58
	8H	23.68	24.96	24.10	25.35	25.75	23.68	24.96	24.10	25.35	25.75
	12H	23.82	25.06	24.25	25.44	25.86	23.82	25.06	24.25	25.44	25.86
4H	2H	21.08	22.53	21.47	22.88	23.25	21.08	22.53	21.47	22.88	23.25
	3H	23.10	24.32	23.51	24.72	25.12	23.10	24.32	23.51	24.72	25.12
	4H	23.93	25.04	24.36	25.45	25.89	23.93	25.04	24.36	25.45	25.89
	6H	24.62	25.59	25.07	26.03	26.49	24.62	25.59	25.07	26.03	26.49
	8H	24.87	25.78	25.33	26.22	26.69	24.87	25.78	25.33	26.22	26.69
	12H	25.07	25.89	25.55	26.36	26.83	25.07	25.89	25.55	26.36	26.83
8H	4H	24.27	25.18	24.73	25.62	26.09	24.27	25.18	24.73	25.62	26.09
	6H	25.10	25.86	25.59	26.34	26.82	25.10	25.86	25.59	26.34	26.82
	8H	25.43	26.11	25.94	26.62	27.10	25.43	26.11	25.94	26.62	27.10
	12H	25.72	26.32	26.22	26.81	27.37	25.72	26.32	26.22	26.81	27.37
12H	4H	24.32	25.14	24.80	25.61	26.08	24.32	25.14	24.80	25.61	26.08
	6H	25.17	25.85	25.67	26.36	26.84	25.17	25.85	25.67	26.36	26.84
	8H	25.57	26.17	26.07	26.66	27.22	25.57	26.17	26.07	26.66	27.22