

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: P866245

Luminaire Tested: PRLX-2002-M-930-45L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866245
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-39)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-930-45L-G-U-S-X-X-BRSS-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

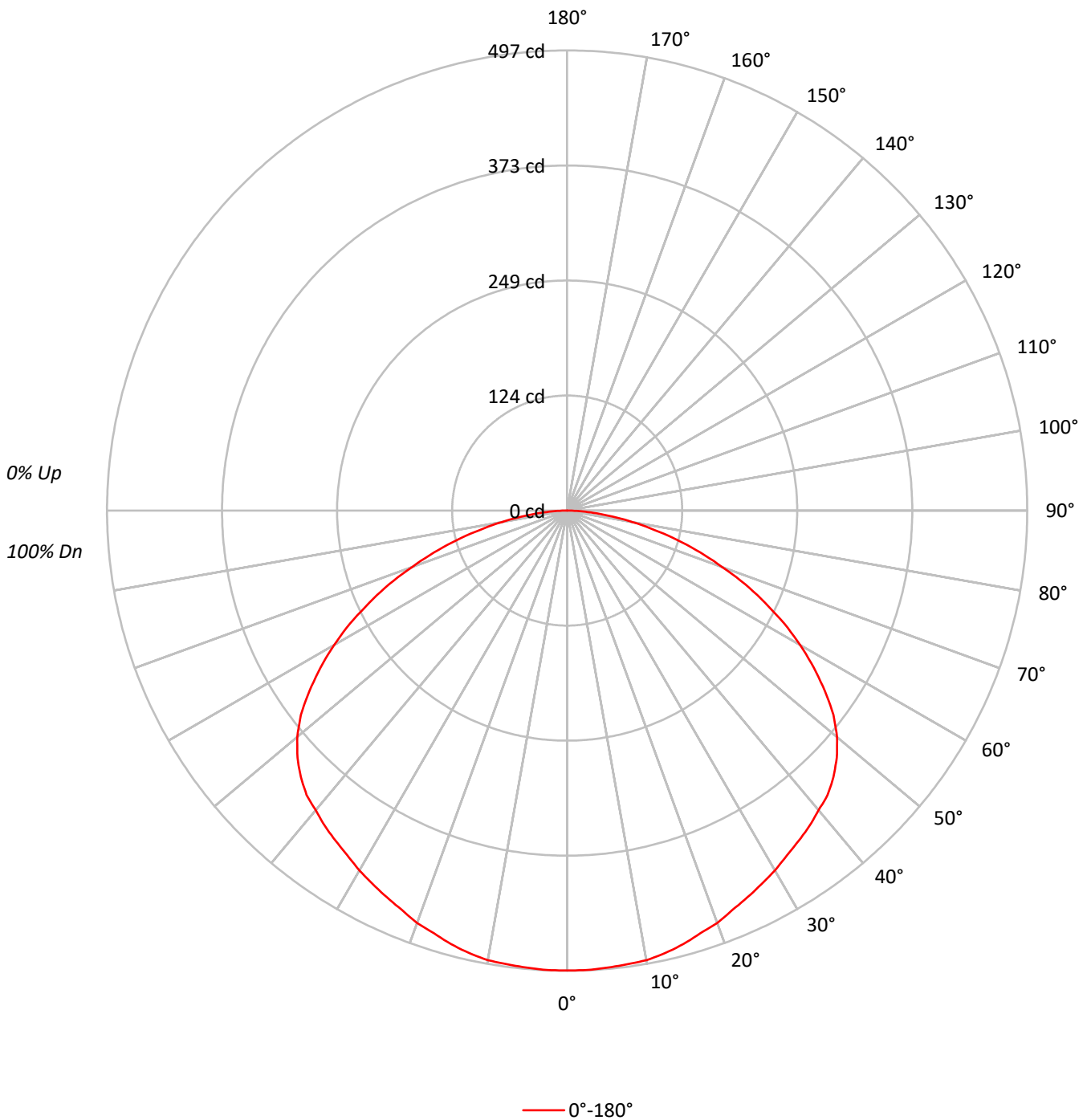
Lumens per Lamp: N/A
Luminaire Lumens: 1685.3 lumens
Efficiency: N/A
Efficacy: 43.4 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.53
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 38.8
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: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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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	105	101	97	93	97	93	90		93	90	87		89	87	85	83
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	58	56
4	81	68	59	52	78	67	58	52	64	57	51		62	56	50		60	54	50	47
5	74	61	51	44	72	59	51	44	57	50	44		55	48	43		53	47	43	40
6	68	54	45	38	66	53	45	38	51	44	38		50	43	37		48	42	37	35
7	63	49	40	34	61	48	40	33	47	39	33		45	38	33		44	37	33	31
8	59	45	36	30	57	44	35	30	42	35	29		41	34	29		40	34	29	27
9	55	41	32	27	53	40	32	26	39	31	26		38	31	26		37	31	26	24
10	51	37	29	24	50	37	29	24	36	29	24		35	28	24		34	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3952
5°	3957
10°	3984
15°	3992
20°	4013
25°	4045
30°	4123
35°	4232
40°	4388
45°	4578
50°	4711
55°	4715
60°	4627
65°	4439
70°	4147
75°	3790
80°	3290
85°	2620

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 4739 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.2	2.8
10°-20°	136.9	8.1
20°-30°	213.0	12.6
30°-40°	273.4	16.2
40°-50°	313.2	18.6
50°-60°	303.0	18.0
60°-70°	233.3	13.8
70°-80°	130.8	7.8
80°-90°	34.5	2.0
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°	397.2	23.6
0°-40°	670.6	39.8
0°-60°	1286.7	76.3
0°-90°	1685.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1685.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	497	
5°	496	47
15°	485	137
25°	461	213
35°	436	273
45°	407	313
55°	340	303
65°	236	233
75°	123	131
85°	29	35
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	496.7
2.5°	496.7
5°	495.5
7.5°	494.3
10°	493.1
12.5°	489.5
15°	484.7
17.5°	478.7
20°	474.0
22.5°	466.8
25°	460.8
27.5°	454.8
30°	448.8
32.5°	441.6
35°	435.7
37.5°	429.7
40°	422.5
42.5°	416.5
45°	406.9
47.5°	395.0
50°	380.6
52.5°	362.6
55°	339.9
57.5°	316.0
60°	290.8
62.5°	264.5
65°	235.8
67.5°	208.3
70°	178.3
72.5°	150.8
75°	123.3
77.5°	96.9
80°	71.8
82.5°	49.1
85°	28.7
87.5°	13.2
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	17.89	19.59	18.25	19.91	20.22	17.89	19.59	18.25	19.91	20.22
	3H	19.70	21.24	20.08	21.57	21.93	19.70	21.24	20.08	21.57	21.93
	4H	20.35	21.81	20.75	22.16	22.53	20.35	21.81	20.75	22.16	22.53
	6H	20.81	22.17	21.22	22.53	22.92	20.81	22.17	21.22	22.53	22.92
	8H	20.95	22.25	21.38	22.64	23.03	20.95	22.25	21.38	22.64	23.03
	12H	21.04	22.28	21.47	22.66	23.09	21.04	22.28	21.47	22.66	23.09
4H	2H	18.54	20.00	18.94	20.35	20.72	18.54	20.00	18.94	20.35	20.72
	3H	20.56	21.79	20.97	22.18	22.58	20.56	21.79	20.97	22.18	22.58
	4H	21.34	22.45	21.77	22.86	23.29	21.34	22.45	21.77	22.86	23.29
	6H	21.92	22.89	22.37	23.33	23.79	21.92	22.89	22.37	23.33	23.79
	8H	22.11	23.02	22.56	23.46	23.92	22.11	23.02	22.56	23.46	23.92
	12H	22.23	23.06	22.71	23.53	24.00	22.23	23.06	22.71	23.53	24.00
8H	4H	21.65	22.56	22.11	23.00	23.46	21.65	22.56	22.11	23.00	23.46
	6H	22.34	23.10	22.84	23.59	24.06	22.34	23.10	22.84	23.59	24.06
	8H	22.59	23.28	23.10	23.78	24.26	22.59	23.28	23.10	23.78	24.26
	12H	22.79	23.39	23.29	23.88	24.44	22.79	23.39	23.29	23.88	24.44
12H	4H	21.68	22.50	22.16	22.98	23.44	21.68	22.50	22.16	22.98	23.44
	6H	22.40	23.08	22.90	23.58	24.07	22.40	23.08	22.90	23.58	24.07
	8H	22.70	23.30	23.21	23.79	24.35	22.70	23.30	23.21	23.79	24.35