

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: P866251

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866251
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: Prenalux
Catalog Number: PRLX-2002-M-930-45L-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 5
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

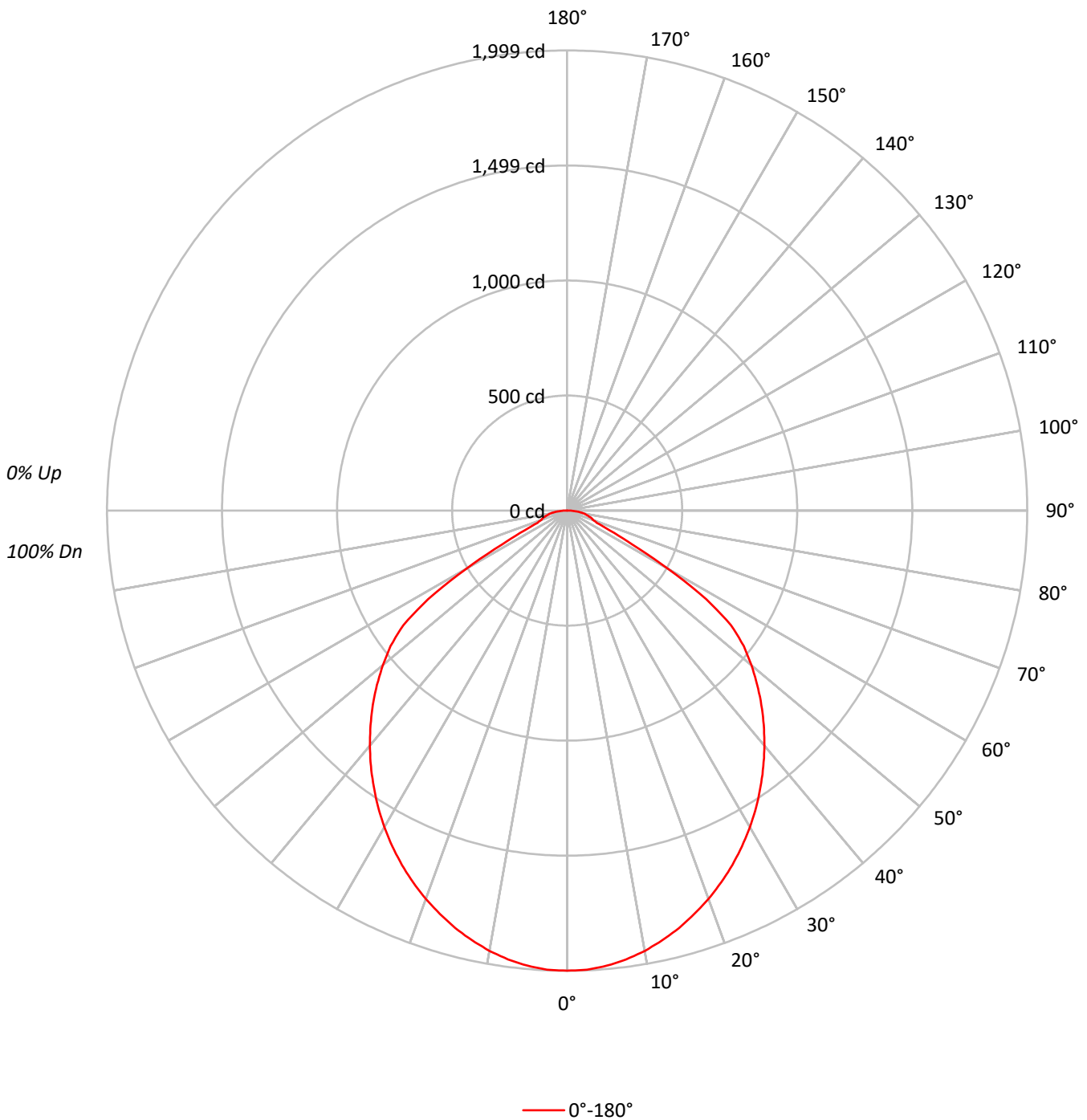
Lumens per Lamp: N/A
Luminaire Lumens: 4464.1 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 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: 0.333 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	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°	15901
5°	15848
10°	15692
15°	15467
20°	15200
25°	14908
30°	14590
35°	14227
40°	13847
45°	13426
50°	12931
55°	12052
60°	8094
65°	3831
70°	2812
75°	3015
80°	3345
85°	3715

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13426 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.1	4.2
10°-20°	529.0	11.9
20°-30°	782.1	17.5
30°-40°	916.3	20.5
40°-50°	919.8	20.6
50°-60°	742.4	16.6
60°-70°	240.0	5.4
70°-80°	103.6	2.3
80°-90°	42.8	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°	1499.2	33.6
0°-40°	2415.5	54.1
0°-60°	4077.7	91.3
0°-90°	4464.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4464.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1999	
5°	1984	188
15°	1878	529
25°	1698	782
35°	1465	916
45°	1193	920
55°	869	742
65°	204	240
75°	98	104
85°	41	43
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1998.7
2.5°	1996.3
5°	1984.4
7.5°	1966.4
10°	1942.5
12.5°	1911.4
15°	1877.9
17.5°	1837.2
20°	1795.3
22.5°	1748.6
25°	1698.3
27.5°	1644.5
30°	1588.2
32.5°	1528.4
35°	1464.9
37.5°	1400.3
40°	1333.3
42.5°	1263.9
45°	1193.3
47.5°	1120.2
50°	1044.8
52.5°	967.1
55°	868.9
57.5°	716.9
60°	508.7
62.5°	318.4
65°	203.5
67.5°	140.0
70°	120.9
72.5°	111.3
75°	98.1
77.5°	86.2
80°	73.0
82.5°	58.6
85°	40.7
87.5°	21.5
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	20.35	21.85	20.71	22.16	22.47	20.35	21.85	20.71	22.16	22.47
	3H	20.45	21.79	20.83	22.11	22.48	20.45	21.79	20.83	22.11	22.48
	4H	20.54	21.79	20.94	22.13	22.51	20.54	21.79	20.94	22.13	22.51
	6H	20.66	21.80	21.07	22.17	22.56	20.66	21.80	21.07	22.17	22.56
	8H	20.71	21.80	21.14	22.19	22.59	20.71	21.80	21.14	22.19	22.59
	12H	20.76	21.80	21.19	22.18	22.61	20.76	21.80	21.19	22.18	22.61
4H	2H	20.31	21.55	20.71	21.90	22.28	20.31	21.55	20.71	21.90	22.28
	3H	20.51	21.53	20.93	21.93	22.33	20.51	21.53	20.93	21.93	22.33
	4H	20.67	21.58	21.10	22.00	22.44	20.67	21.58	21.10	22.00	22.44
	6H	20.89	21.68	21.35	22.12	22.59	20.89	21.68	21.35	22.12	22.59
	8H	21.00	21.73	21.46	22.18	22.65	21.00	21.73	21.46	22.18	22.65
	12H	21.10	21.76	21.58	22.24	22.71	21.10	21.76	21.58	22.24	22.71
8H	4H	20.69	21.43	21.15	21.87	22.34	20.69	21.43	21.15	21.87	22.34
	6H	20.99	21.60	21.48	22.09	22.57	20.99	21.60	21.48	22.09	22.57
	8H	21.15	21.71	21.67	22.22	22.71	21.15	21.71	21.67	22.22	22.71
	12H	21.33	21.83	21.84	22.32	22.88	21.33	21.83	21.84	22.32	22.88
12H	4H	20.68	21.34	21.16	21.82	22.29	20.68	21.34	21.16	21.82	22.29
	6H	20.99	21.54	21.51	22.06	22.54	20.99	21.54	21.51	22.06	22.54
	8H	21.21	21.70	21.72	22.20	22.76	21.21	21.70	21.72	22.20	22.76