

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: P867045

Luminaire Tested: PRLX-2002-L-935-100L-L-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867045
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-81)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-L-935-100L-L-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

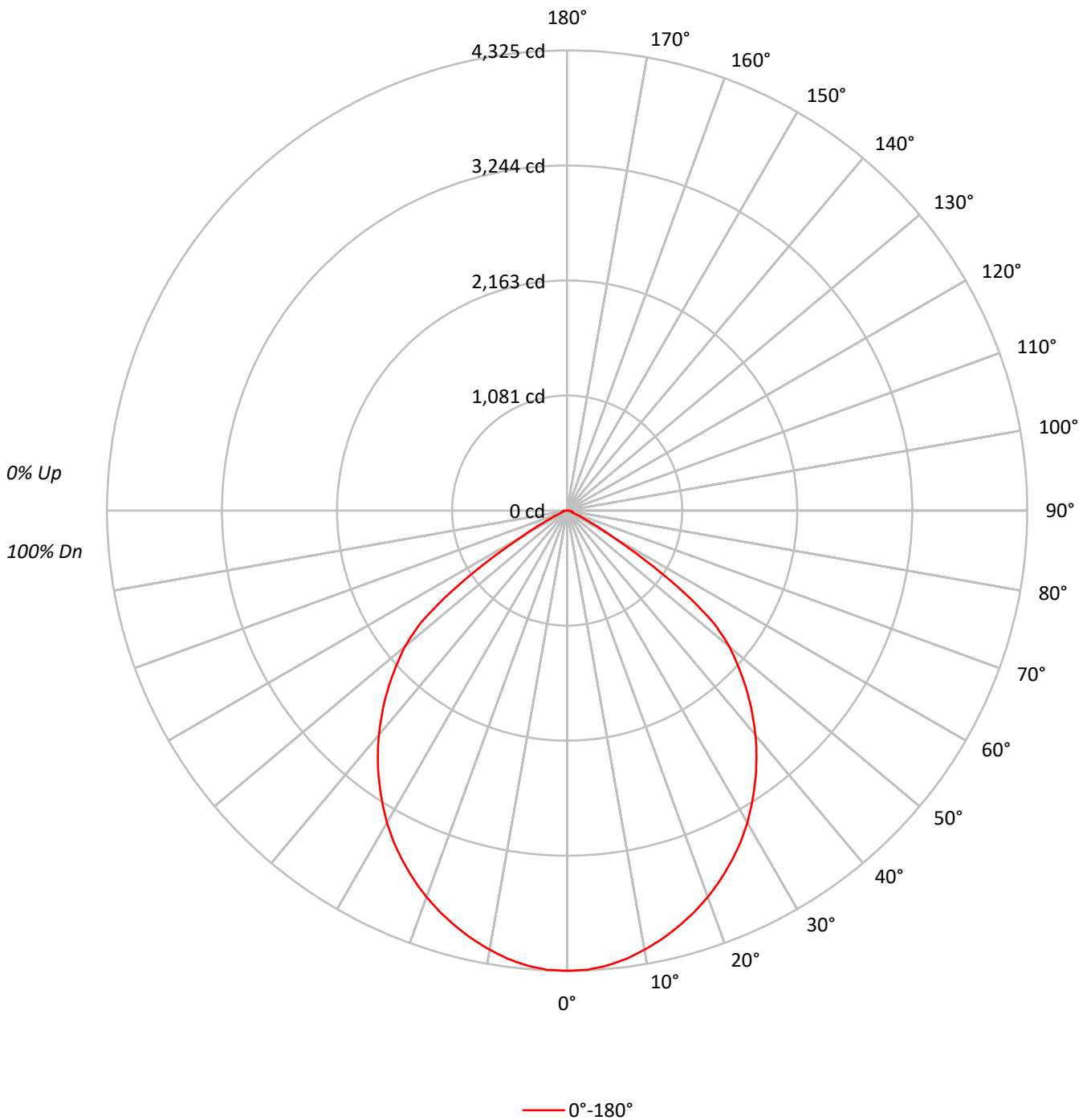
Lumens per Lamp: N/A
Luminaire Lumens: 8397.4 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	77	73	78	75	72	70
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	72	67	64	62
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	60	57	55
6	77	65	58	52	75	65	57	52	63	56	51	61	56	51	60	55	51	49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36
10	59	47	40	35	58	46	39	35	46	39	35	45	39	35	44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	21339
5°	21262
10°	20996
15°	20665
20°	20294
25°	19841
30°	19294
35°	18582
40°	17732
45°	16653
50°	15301
55°	11508
60°	4845
65°	1786
70°	821
75°	898
80°	1037
85°	1206

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16653 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.5	4.8
10°-20°	1140.4	13.6
20°-30°	1677.5	20.0
30°-40°	1926.7	22.9
40°-50°	1835.3	21.9
50°-60°	1149.4	13.7
60°-70°	190.2	2.3
70°-80°	49.7	0.6
80°-90°	21.7	0.3
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°	3224.4	38.4
0°-40°	5151.1	61.3
0°-60°	8135.8	96.9
0°-90°	8397.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8397.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4325	
5°	4293	407
15°	4046	1140
25°	3645	1678
35°	3085	1927
45°	2387	1835
55°	1338	1149
65°	153	190
75°	47	50
85°	21	22
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	4325.1
2.5°	4320.7
5°	4293.1
7.5°	4249.5
10°	4190.8
12.5°	4124.1
15°	4045.8
17.5°	3960.4
20°	3865.2
22.5°	3759.4
25°	3644.6
27.5°	3522.7
30°	3386.6
32.5°	3239.0
35°	3085.1
37.5°	2923.2
40°	2753.2
42.5°	2572.7
45°	2386.7
47.5°	2188.4
50°	1993.5
52.5°	1740.9
55°	1337.9
57.5°	864.7
60°	491.0
62.5°	278.4
65°	153.0
67.5°	72.1
70°	56.9
72.5°	52.5
75°	47.1
77.5°	41.8
80°	36.5
82.5°	29.4
85°	21.3
87.5°	10.7
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	17.85	19.25	18.22	19.56	19.87	17.85	19.25	18.22	19.56	19.87
	3H	17.77	18.99	18.15	19.32	19.69	17.77	18.99	18.15	19.32	19.69
	4H	17.73	18.86	18.13	19.21	19.60	17.73	18.86	18.13	19.21	19.60
	6H	17.68	18.73	18.10	19.10	19.49	17.68	18.73	18.10	19.10	19.49
	8H	17.66	18.65	18.09	19.04	19.45	17.66	18.65	18.09	19.04	19.45
	12H	17.64	18.59	18.07	18.97	19.40	17.64	18.59	18.07	18.97	19.40
4H	2H	17.72	18.86	18.12	19.21	19.59	17.72	18.86	18.12	19.21	19.59
	3H	17.65	18.57	18.07	18.98	19.38	17.65	18.57	18.07	18.98	19.38
	4H	17.61	18.43	18.05	18.85	19.29	17.61	18.43	18.05	18.85	19.29
	6H	17.59	18.30	18.06	18.74	19.21	17.59	18.30	18.06	18.74	19.21
	8H	17.57	18.23	18.04	18.68	19.15	17.57	18.23	18.04	18.68	19.15
	12H	17.56	18.14	18.04	18.62	19.10	17.56	18.14	18.04	18.62	19.10
8H	4H	17.50	18.16	17.97	18.61	19.08	17.50	18.16	17.97	18.61	19.08
	6H	17.48	18.03	17.98	18.52	19.00	17.48	18.03	17.98	18.52	19.00
	8H	17.47	17.96	17.99	18.48	18.97	17.47	17.96	17.99	18.48	18.97
	12H	17.48	17.92	17.99	18.41	18.98	17.48	17.92	17.99	18.41	18.98
12H	4H	17.46	18.05	17.95	18.53	19.00	17.46	18.05	17.95	18.53	19.00
	6H	17.43	17.92	17.95	18.44	18.93	17.43	17.92	17.95	18.44	18.93
	8H	17.44	17.89	17.96	18.38	18.95	17.44	17.89	17.96	18.38	18.95