

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: P866291

Luminaire Tested: PRLX-2002-M-935-15L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866291
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-935-15L-L-U-S-X-X-WHHR-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

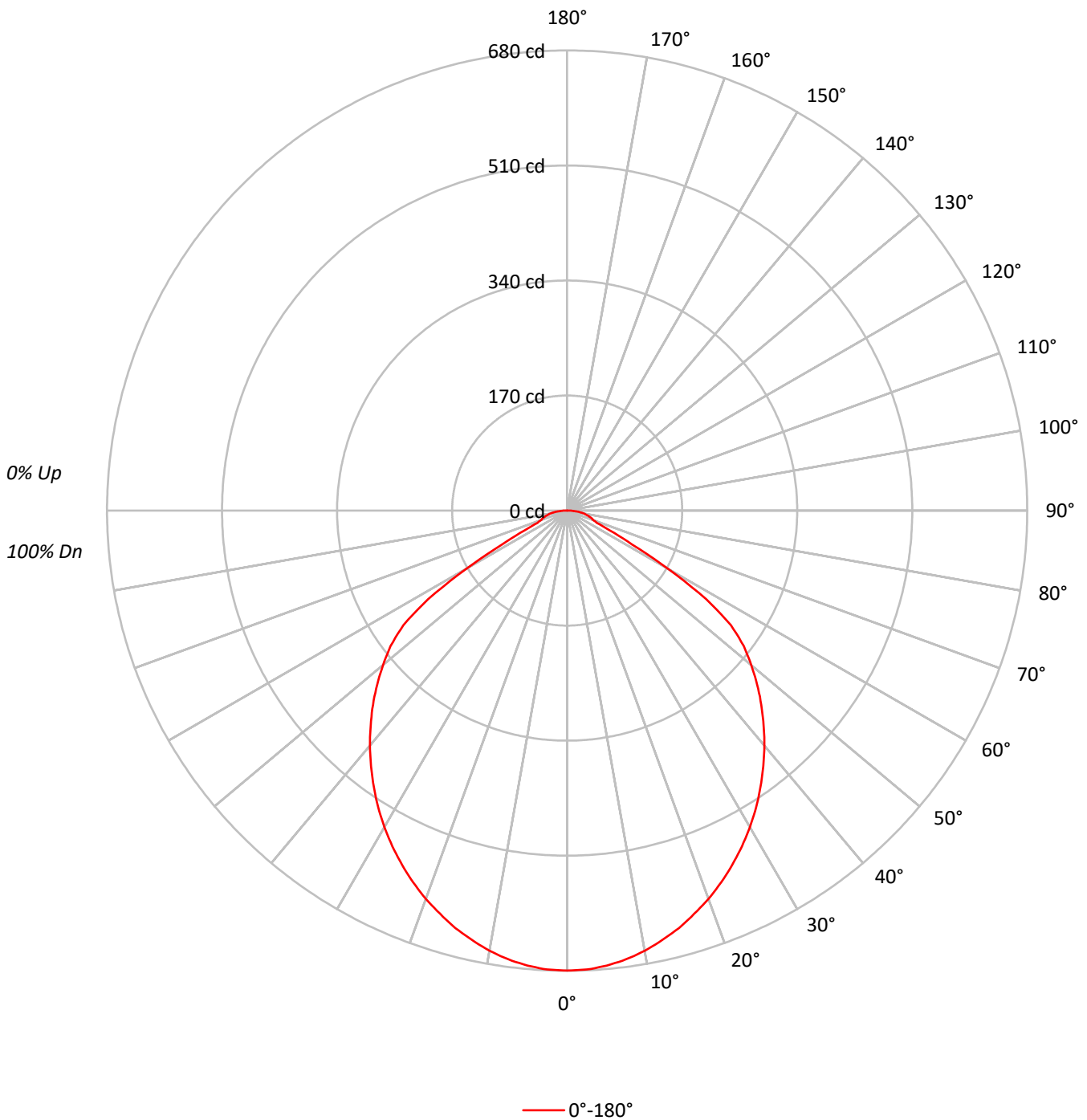
Lumens per Lamp: N/A
Luminaire Lumens: 1518.2 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 14
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°	5408
5°	5390
10°	5337
15°	5260
20°	5170
25°	5070
30°	4962
35°	4839
40°	4709
45°	4566
50°	4398
55°	4099
60°	2753
65°	1303
70°	956
75°	1027
80°	1136
85°	1260

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4566 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.0	4.2
10°-20°	179.9	11.9
20°-30°	266.0	17.5
30°-40°	311.6	20.5
40°-50°	312.8	20.6
50°-60°	252.5	16.6
60°-70°	81.6	5.4
70°-80°	35.3	2.3
80°-90°	14.5	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°	509.9	33.6
0°-40°	821.5	54.1
0°-60°	1386.8	91.3
0°-90°	1518.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1518.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	680	
5°	675	64
15°	639	180
25°	578	266
35°	498	312
45°	406	313
55°	296	252
65°	69	82
75°	33	35
85°	14	15
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	679.7
2.5°	678.9
5°	674.9
7.5°	668.8
10°	660.6
12.5°	650.0
15°	638.6
17.5°	624.8
20°	610.6
22.5°	594.7
25°	577.6
27.5°	559.3
30°	540.1
32.5°	519.8
35°	498.2
37.5°	476.2
40°	453.4
42.5°	429.8
45°	405.8
47.5°	381.0
50°	355.3
52.5°	328.9
55°	295.5
57.5°	243.8
60°	173.0
62.5°	108.3
65°	69.2
67.5°	47.6
70°	41.1
72.5°	37.9
75°	33.4
77.5°	29.3
80°	24.8
82.5°	19.9
85°	13.8
87.5°	7.3
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	16.60	18.10	16.96	18.41	18.73	16.60	18.10	16.96	18.41	18.73
	3H	16.71	18.04	17.09	18.37	18.73	16.71	18.04	17.09	18.37	18.73
	4H	16.79	18.04	17.19	18.39	18.77	16.79	18.04	17.19	18.39	18.77
	6H	16.91	18.05	17.32	18.42	18.81	16.91	18.05	17.32	18.42	18.81
	8H	16.96	18.05	17.39	18.44	18.84	16.96	18.05	17.39	18.44	18.84
	12H	17.01	18.05	17.44	18.44	18.87	17.01	18.05	17.44	18.44	18.87
4H	2H	16.56	17.81	16.96	18.16	18.54	16.56	17.81	16.96	18.16	18.54
	3H	16.77	17.78	17.18	18.18	18.59	16.77	17.78	17.18	18.18	18.59
	4H	16.92	17.83	17.36	18.25	18.69	16.92	17.83	17.36	18.25	18.69
	6H	17.14	17.93	17.60	18.38	18.84	17.14	17.93	17.60	18.38	18.84
	8H	17.25	17.99	17.71	18.43	18.90	17.25	17.99	17.71	18.43	18.90
	12H	17.35	18.01	17.83	18.49	18.96	17.35	18.01	17.83	18.49	18.96
8H	4H	16.94	17.68	17.41	18.12	18.59	16.94	17.68	17.41	18.12	18.59
	6H	17.24	17.85	17.74	18.34	18.82	17.24	17.85	17.74	18.34	18.82
	8H	17.40	17.96	17.92	18.47	18.96	17.40	17.96	17.92	18.47	18.96
	12H	17.58	18.08	18.09	18.57	19.14	17.58	18.08	18.09	18.57	19.14
12H	4H	16.93	17.59	17.41	18.07	18.54	16.93	17.59	17.41	18.07	18.54
	6H	17.24	17.80	17.76	18.31	18.80	17.24	17.80	17.76	18.31	18.80
	8H	17.46	17.96	17.97	18.45	19.01	17.46	17.96	17.97	18.45	19.01