

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: P866161

Luminaire Tested: PRLX-2002-M-927-15L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866161
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-927-15L-L-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

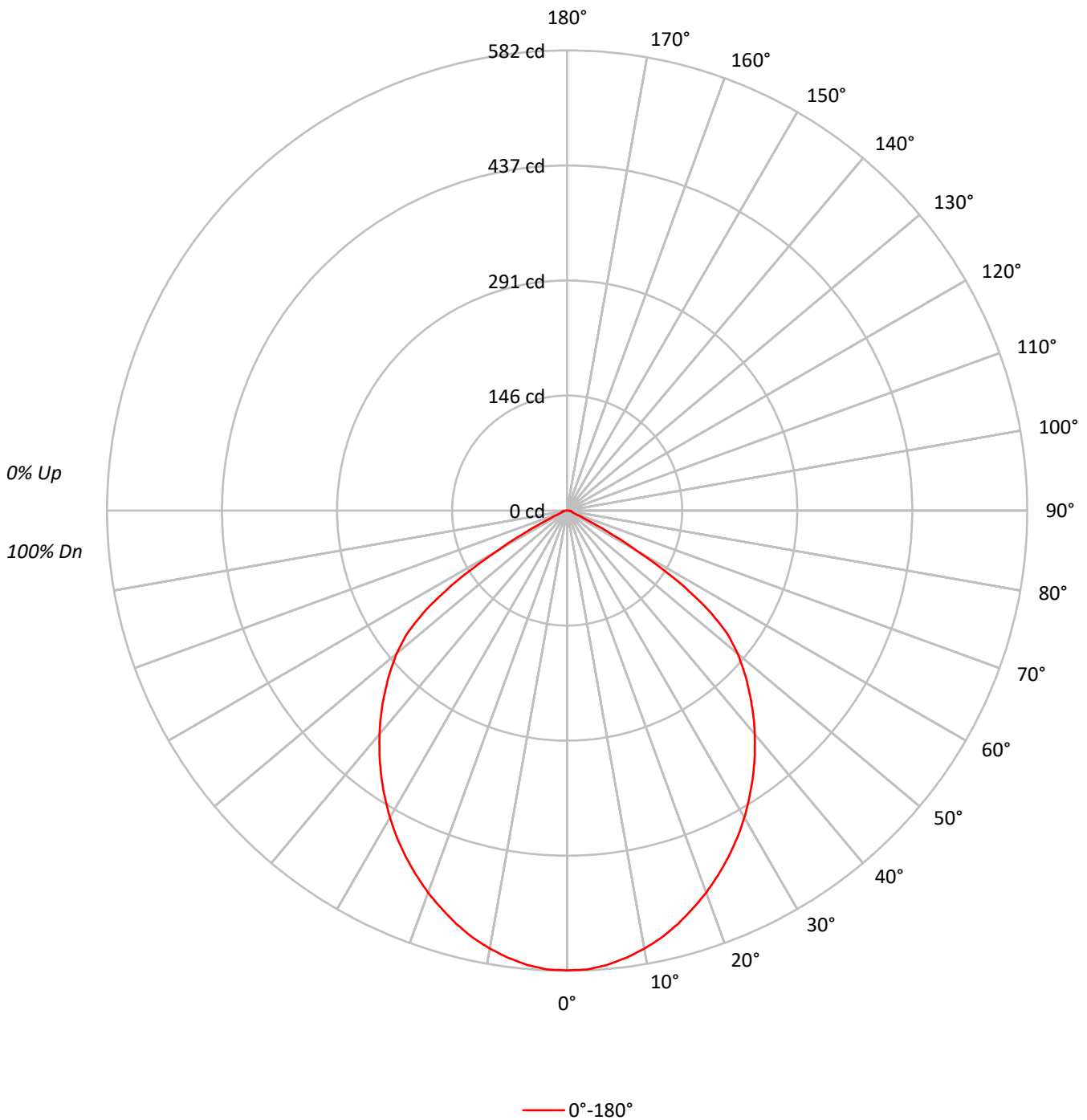
Lumens per Lamp: N/A
Luminaire Lumens: 1167.7 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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: 0.5 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	111	108	105	102	109	106	103	100	101	99	97		98	96	94		94	93	91	89
2	103	97	91	87	101	95	90	86	92	88	84		89	85	82		86	83	80	78
3	96	87	80	75	93	86	79	74	83	77	73		80	76	72		78	74	71	69
4	89	78	71	65	86	77	70	65	75	69	64		73	67	63		71	66	62	60
5	82	71	63	57	80	70	62	57	68	61	56		66	60	56		64	59	55	53
6	76	64	56	51	74	63	56	51	62	55	50		60	54	50		59	53	49	48
7	71	59	51	45	69	58	51	45	57	50	45		55	49	45		54	48	44	43
8	66	54	46	41	65	53	46	41	52	45	40		51	45	40		50	44	40	38
9	62	50	42	37	61	49	42	37	48	41	37		47	41	37		46	40	36	35
10	58	46	39	34	57	45	38	34	44	38	34		44	38	33		43	37	33	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4626
5°	4608
10°	4544
15°	4458
20°	4353
25°	4240
30°	4118
35°	3981
40°	3834
45°	3670
50°	3482
55°	2999
60°	1653
65°	465
70°	186
75°	200
80°	224
85°	274

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3670 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.6	4.7
10°-20°	152.4	13.1
20°-30°	222.4	19.0
30°-40°	256.2	21.9
40°-50°	251.6	21.5
50°-60°	184.5	15.8
60°-70°	36.1	3.1
70°-80°	6.8	0.6
80°-90°	3.0	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°	429.4	36.8
0°-40°	685.6	58.7
0°-60°	1121.7	96.1
0°-90°	1167.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1167.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	582	
5°	577	55
15°	541	152
25°	483	222
35°	410	256
45°	326	252
55°	216	185
65°	25	36
75°	6	7
85°	3	3
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	581.5
2.5°	580.8
5°	577.0
7.5°	570.5
10°	562.5
12.5°	553.0
15°	541.2
17.5°	527.9
20°	514.2
22.5°	499.0
25°	483.0
27.5°	466.2
30°	448.3
32.5°	429.3
35°	409.9
37.5°	389.7
40°	369.2
42.5°	348.2
45°	326.2
47.5°	304.5
50°	281.3
52.5°	255.0
55°	216.2
57.5°	165.6
60°	103.9
62.5°	55.9
65°	24.7
67.5°	11.4
70°	8.0
72.5°	7.2
75°	6.5
77.5°	5.7
80°	4.9
82.5°	4.2
85°	3.0
87.5°	1.5
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	14.87	16.30	15.23	16.61	16.93	14.87	16.30	15.23	16.61	16.93
	3H	14.77	16.03	15.15	16.36	16.73	14.77	16.03	15.15	16.36	16.73
	4H	14.72	15.89	15.12	16.24	16.62	14.72	15.89	15.12	16.24	16.62
	6H	14.67	15.74	15.08	16.11	16.50	14.67	15.74	15.08	16.11	16.50
	8H	14.64	15.65	15.07	16.05	16.45	14.64	15.65	15.07	16.05	16.45
	12H	14.61	15.58	15.04	15.96	16.39	14.61	15.58	15.04	15.96	16.39
4H	2H	14.73	15.90	15.13	16.25	16.63	14.73	15.90	15.13	16.25	16.63
	3H	14.65	15.59	15.06	15.99	16.40	14.65	15.59	15.06	15.99	16.40
	4H	14.59	15.43	15.02	15.85	16.29	14.59	15.43	15.02	15.85	16.29
	6H	14.54	15.27	15.00	15.71	16.18	14.54	15.27	15.00	15.71	16.18
	8H	14.51	15.18	14.98	15.63	16.10	14.51	15.18	14.98	15.63	16.10
	12H	14.48	15.08	14.97	15.57	16.04	14.48	15.08	14.97	15.57	16.04
8H	4H	14.47	15.15	14.94	15.60	16.07	14.47	15.15	14.94	15.60	16.07
	6H	14.41	14.97	14.91	15.47	15.95	14.41	14.97	14.91	15.47	15.95
	8H	14.38	14.89	14.90	15.40	15.89	14.38	14.89	14.90	15.40	15.89
	12H	14.36	14.82	14.88	15.31	15.88	14.36	14.82	14.88	15.31	15.88
12H	4H	14.43	15.03	14.92	15.51	15.99	14.43	15.03	14.92	15.51	15.99
	6H	14.36	14.86	14.88	15.38	15.87	14.36	14.86	14.88	15.38	15.87
	8H	14.34	14.80	14.86	15.29	15.86	14.34	14.80	14.86	15.29	15.86