

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: P866163

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866163
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-927-15L-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 2
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

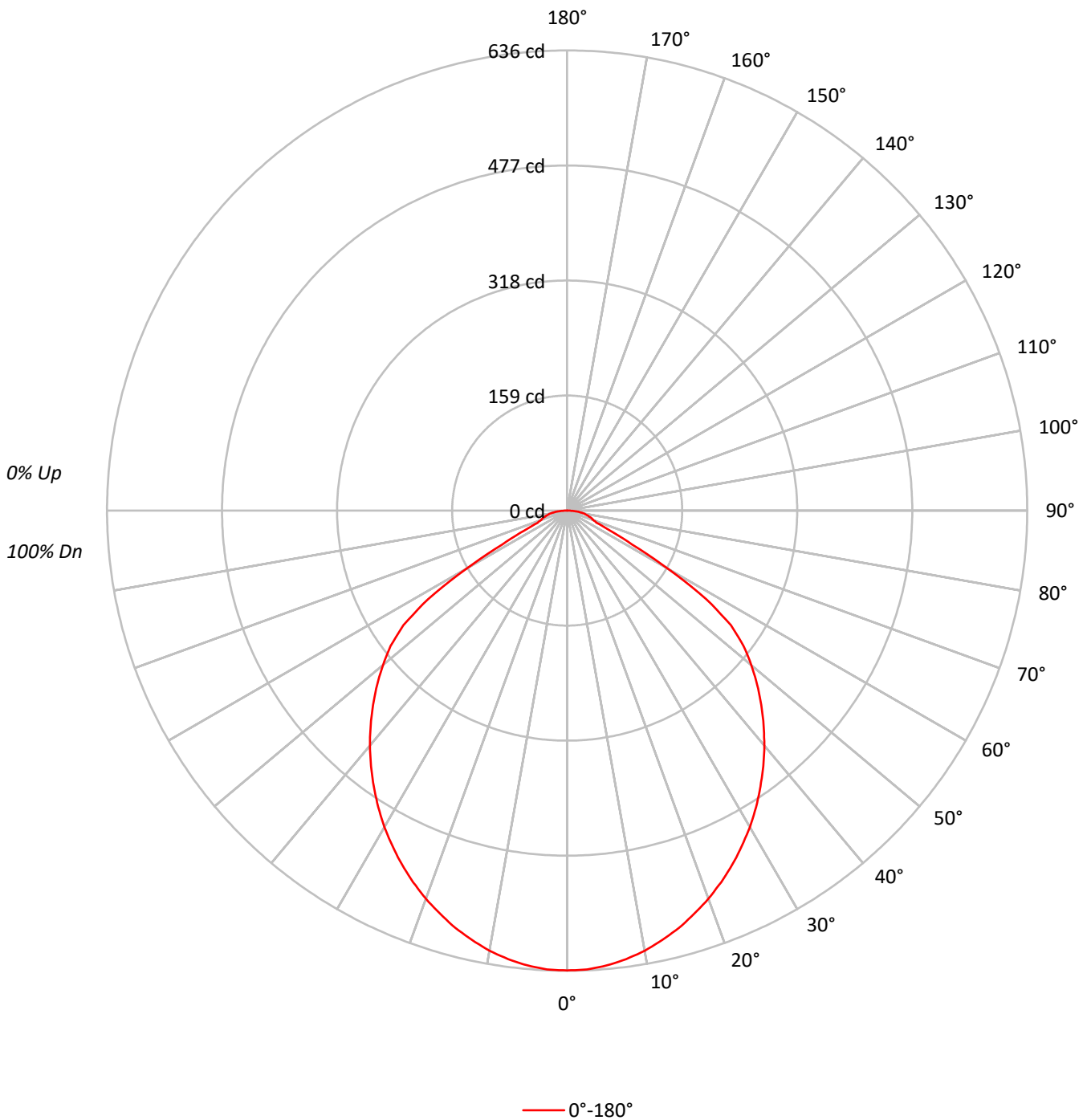
Lumens per Lamp: N/A
Luminaire Lumens: 1419.5 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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°	5057
5°	5039
10°	4990
15°	4919
20°	4833
25°	4741
30°	4639
35°	4524
40°	4403
45°	4270
50°	4113
55°	3832
60°	2574
65°	1218
70°	893
75°	959
80°	1063
85°	1178

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4270 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.8	4.2
10°-20°	168.2	11.9
20°-30°	248.7	17.5
30°-40°	291.4	20.5
40°-50°	292.5	20.6
50°-60°	236.1	16.6
60°-70°	76.3	5.4
70°-80°	32.9	2.3
80°-90°	13.6	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°	476.7	33.6
0°-40°	768.1	54.1
0°-60°	1296.7	91.3
0°-90°	1419.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1419.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	636	
5°	631	60
15°	597	168
25°	540	249
35°	466	291
45°	380	292
55°	276	236
65°	65	76
75°	31	33
85°	13	14
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	635.6
2.5°	634.8
5°	631.0
7.5°	625.3
10°	617.7
12.5°	607.8
15°	597.2
17.5°	584.2
20°	570.9
22.5°	556.0
25°	540.1
27.5°	522.9
30°	505.0
32.5°	486.0
35°	465.8
37.5°	445.3
40°	424.0
42.5°	401.9
45°	379.5
47.5°	356.2
50°	332.3
52.5°	307.5
55°	276.3
57.5°	228.0
60°	161.8
62.5°	101.2
65°	64.7
67.5°	44.5
70°	38.4
72.5°	35.4
75°	31.2
77.5°	27.4
80°	23.2
82.5°	18.6
85°	12.9
87.5°	6.9
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	16.37	17.87	16.73	18.18	18.49	16.37	17.87	16.73	18.18	18.49
	3H	16.47	17.81	16.85	18.13	18.50	16.47	17.81	16.85	18.13	18.50
	4H	16.56	17.81	16.96	18.15	18.53	16.56	17.81	16.96	18.15	18.53
	6H	16.68	17.82	17.09	18.19	18.58	16.68	17.82	17.09	18.19	18.58
	8H	16.73	17.82	17.16	18.21	18.61	16.73	17.82	17.16	18.21	18.61
	12H	16.78	17.82	17.21	18.20	18.63	16.78	17.82	17.21	18.20	18.63
4H	2H	16.33	17.57	16.73	17.92	18.30	16.33	17.57	16.73	17.92	18.30
	3H	16.53	17.55	16.95	17.95	18.35	16.53	17.55	16.95	17.95	18.35
	4H	16.69	17.60	17.12	18.02	18.46	16.69	17.60	17.12	18.02	18.46
	6H	16.91	17.70	17.37	18.14	18.61	16.91	17.70	17.37	18.14	18.61
	8H	17.01	17.75	17.48	18.20	18.67	17.01	17.75	17.48	18.20	18.67
	12H	17.12	17.77	17.60	18.25	18.73	17.12	17.77	17.60	18.25	18.73
8H	4H	16.71	17.44	17.17	17.89	18.36	16.71	17.44	17.17	17.89	18.36
	6H	17.01	17.62	17.50	18.11	18.59	17.01	17.62	17.50	18.11	18.59
	8H	17.17	17.73	17.69	18.24	18.73	17.17	17.73	17.69	18.24	18.73
	12H	17.35	17.84	17.86	18.34	18.90	17.35	17.84	17.86	18.34	18.90
12H	4H	16.70	17.36	17.18	17.84	18.31	16.70	17.36	17.18	17.84	18.31
	6H	17.01	17.56	17.52	18.07	18.56	17.01	17.56	17.52	18.07	18.56
	8H	17.23	17.72	17.74	18.21	18.78	17.23	17.72	17.74	18.21	18.78