

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: P866159

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866159
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-38)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-927-15L-G-U-S-X-X-WHHR-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

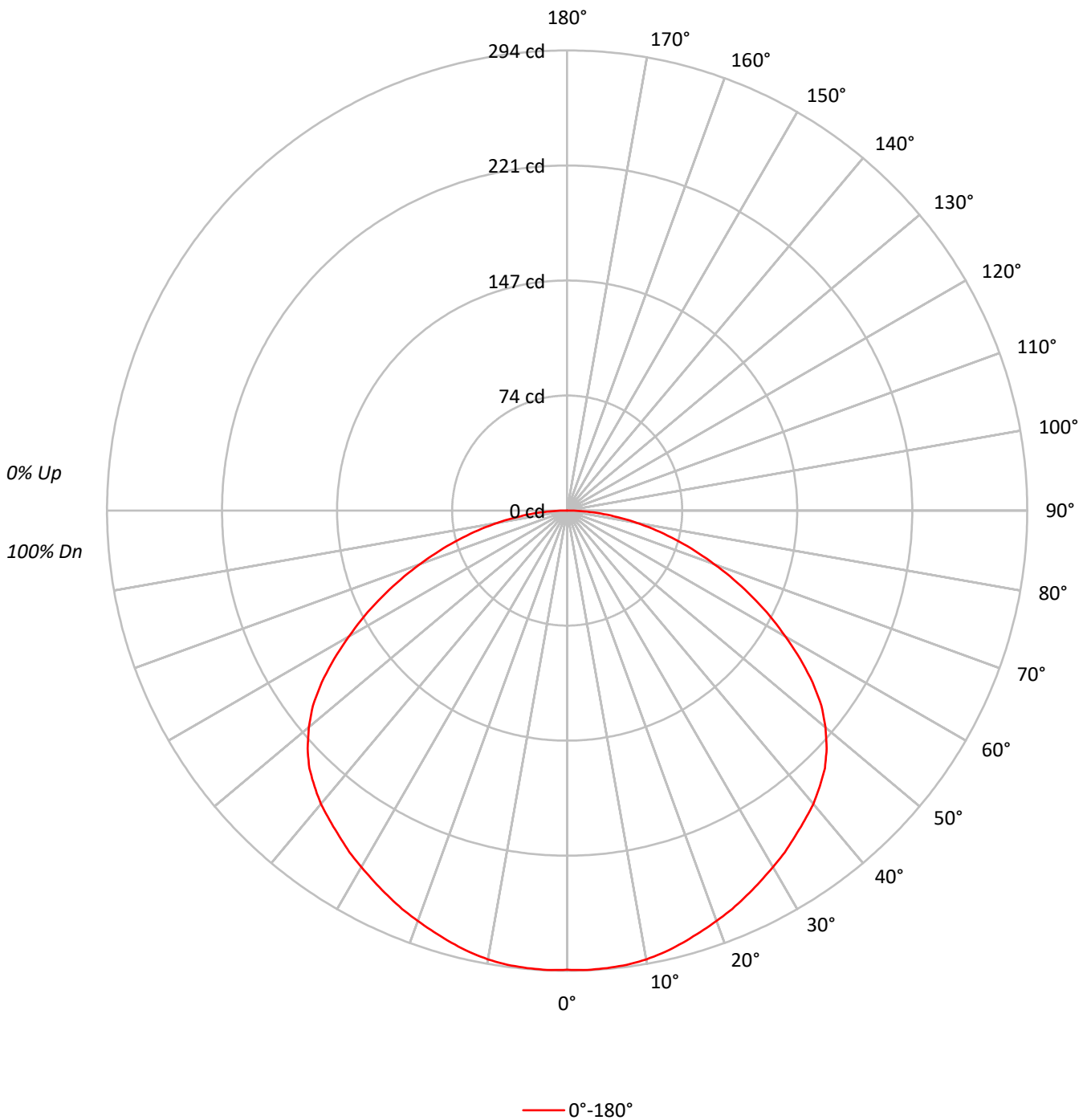
Lumens per Lamp: N/A
Luminaire Lumens: 971.7 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.5
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	48
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	35	30	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2334
5°	2343
10°	2352
15°	2354
20°	2362
25°	2382
30°	2416
35°	2466
40°	2541
45°	2620
50°	2666
55°	2655
60°	2562
65°	2457
70°	2328
75°	2201
80°	2075
85°	1944

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 2676 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.9	2.9
10°-20°	80.8	8.3
20°-30°	125.3	12.9
30°-40°	159.3	16.4
40°-50°	179.1	18.4
50°-60°	170.2	17.5
60°-70°	129.3	13.3
70°-80°	76.0	7.8
80°-90°	23.8	2.4
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°	234.0	24.1
0°-40°	393.4	40.5
0°-60°	742.7	76.4
0°-90°	971.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	971.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	293	
5°	293	28
15°	286	81
25°	271	125
35°	254	159
45°	233	179
55°	191	170
65°	130	129
75°	72	76
85°	21	24
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	293.4
2.5°	293.8
5°	293.4
7.5°	292.7
10°	291.2
12.5°	288.9
15°	285.8
17.5°	282.4
20°	279.0
22.5°	275.5
25°	271.4
27.5°	267.2
30°	263.0
32.5°	258.8
35°	253.9
37.5°	249.3
40°	244.7
42.5°	239.0
45°	232.9
47.5°	224.9
50°	215.4
52.5°	204.8
55°	191.4
57.5°	176.6
60°	161.0
62.5°	146.1
65°	130.5
67.5°	115.3
70°	100.1
72.5°	85.6
75°	71.6
77.5°	58.2
80°	45.3
82.5°	32.7
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	15.76	17.46	16.13	17.77	18.09	15.76	17.46	16.13	17.77	18.09
	3H	17.56	19.10	17.94	19.43	19.78	17.56	19.10	17.94	19.43	19.78
	4H	18.26	19.71	18.65	20.05	20.43	18.26	19.71	18.65	20.05	20.43
	6H	18.81	20.15	19.22	20.52	20.91	18.81	20.15	19.22	20.52	20.91
	8H	19.00	20.29	19.42	20.67	21.07	19.00	20.29	19.42	20.67	21.07
	12H	19.14	20.38	19.57	20.76	21.19	19.14	20.38	19.57	20.76	21.19
4H	2H	16.40	17.85	16.80	18.20	18.57	16.40	17.85	16.80	18.20	18.57
	3H	18.42	19.65	18.83	20.04	20.44	18.42	19.65	18.83	20.04	20.44
	4H	19.26	20.36	19.69	20.78	21.21	19.26	20.36	19.69	20.78	21.21
	6H	19.94	20.92	20.40	21.36	21.81	19.94	20.92	20.40	21.36	21.81
	8H	20.19	21.10	20.65	21.54	22.01	20.19	21.10	20.65	21.54	22.01
	12H	20.39	21.21	20.87	21.69	22.15	20.39	21.21	20.87	21.69	22.15
8H	4H	19.59	20.50	20.05	20.95	21.41	19.59	20.50	20.05	20.95	21.41
	6H	20.42	21.18	20.91	21.67	22.14	20.42	21.18	20.91	21.67	22.14
	8H	20.75	21.43	21.26	21.94	22.42	20.75	21.43	21.26	21.94	22.42
	12H	21.04	21.64	21.54	22.13	22.69	21.04	21.64	21.54	22.13	22.69
12H	4H	19.64	20.46	20.12	20.93	21.40	19.64	20.46	20.12	20.93	21.40
	6H	20.49	21.18	21.00	21.68	22.16	20.49	21.18	21.00	21.68	22.16
	8H	20.89	21.49	21.39	21.98	22.54	20.89	21.49	21.39	21.98	22.54