

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: P866351

Luminaire Tested: PRLX-2002-M-940-15L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866351
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-940-15L-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

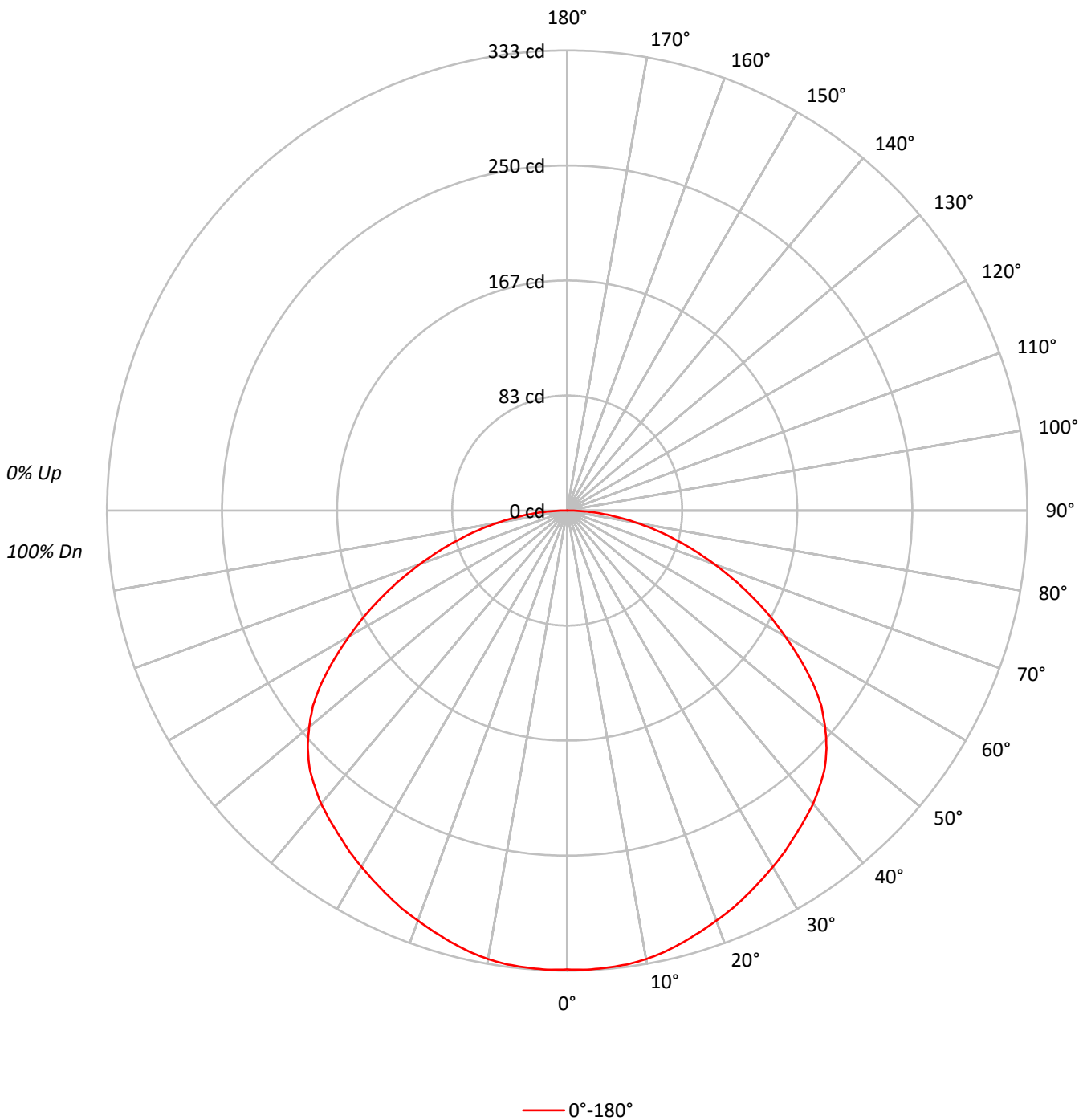
Lumens per Lamp: N/A
Luminaire Lumens: 1099.9 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.5
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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°	2642
5°	2652
10°	2663
15°	2664
20°	2674
25°	2697
30°	2735
35°	2790
40°	2877
45°	2967
50°	3018
55°	3006
60°	2899
65°	2782
70°	2635
75°	2490
80°	2350
85°	2200

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 3029 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.6	2.9
10°-20°	91.4	8.3
20°-30°	141.9	12.9
30°-40°	180.3	16.4
40°-50°	202.8	18.4
50°-60°	192.7	17.5
60°-70°	146.3	13.3
70°-80°	86.0	7.8
80°-90°	26.9	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°	264.9	24.1
0°-40°	445.2	40.5
0°-60°	840.7	76.4
0°-90°	1099.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1099.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	332	
5°	332	32
15°	324	91
25°	307	142
35°	287	180
45°	264	203
55°	217	193
65°	148	146
75°	81	86
85°	24	27
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	332.1
2.5°	332.6
5°	332.1
7.5°	331.3
10°	329.6
12.5°	327.0
15°	323.5
17.5°	319.7
20°	315.8
22.5°	311.9
25°	307.2
27.5°	302.4
30°	297.7
32.5°	292.9
35°	287.3
37.5°	282.2
40°	277.0
42.5°	270.5
45°	263.7
47.5°	254.6
50°	243.8
52.5°	231.8
55°	216.7
57.5°	199.9
60°	182.2
62.5°	165.4
65°	147.8
67.5°	130.5
70°	113.3
72.5°	96.9
75°	81.0
77.5°	65.9
80°	51.3
82.5°	37.0
85°	24.1
87.5°	12.1
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	16.19	17.89	16.56	18.20	18.52	16.19	17.89	16.56	18.20	18.52
	3H	17.99	19.53	18.37	19.86	20.21	17.99	19.53	18.37	19.86	20.21
	4H	18.69	20.14	19.08	20.48	20.86	18.69	20.14	19.08	20.48	20.86
	6H	19.24	20.58	19.65	20.95	21.34	19.24	20.58	19.65	20.95	21.34
	8H	19.43	20.72	19.85	21.11	21.50	19.43	20.72	19.85	21.11	21.50
	12H	19.57	20.81	20.00	21.19	21.62	19.57	20.81	20.00	21.19	21.62
4H	2H	16.83	18.28	17.23	18.63	19.00	16.83	18.28	17.23	18.63	19.00
	3H	18.86	20.08	19.26	20.47	20.87	18.86	20.08	19.26	20.47	20.87
	4H	19.69	20.79	20.12	21.21	21.64	19.69	20.79	20.12	21.21	21.64
	6H	20.38	21.35	20.83	21.79	22.24	20.38	21.35	20.83	21.79	22.24
	8H	20.62	21.53	21.08	21.98	22.44	20.62	21.53	21.08	21.98	22.44
	12H	20.82	21.64	21.30	22.12	22.58	20.82	21.64	21.30	22.12	22.58
8H	4H	20.02	20.94	20.48	21.38	21.84	20.02	20.94	20.48	21.38	21.84
	6H	20.85	21.61	21.34	22.10	22.57	20.85	21.61	21.34	22.10	22.57
	8H	21.18	21.87	21.69	22.37	22.85	21.18	21.87	21.69	22.37	22.85
	12H	21.47	22.07	21.97	22.56	23.12	21.47	22.07	21.97	22.56	23.12
12H	4H	20.07	20.89	20.55	21.37	21.83	20.07	20.89	20.55	21.37	21.83
	6H	20.92	21.61	21.43	22.11	22.60	20.92	21.61	21.43	22.11	22.60
	8H	21.32	21.93	21.82	22.41	22.97	21.32	21.93	21.82	22.41	22.97