

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: P867132

Luminaire Tested: PRLX-2002-L-940-15L-L-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867132
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-83)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-L-940-15L-L-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

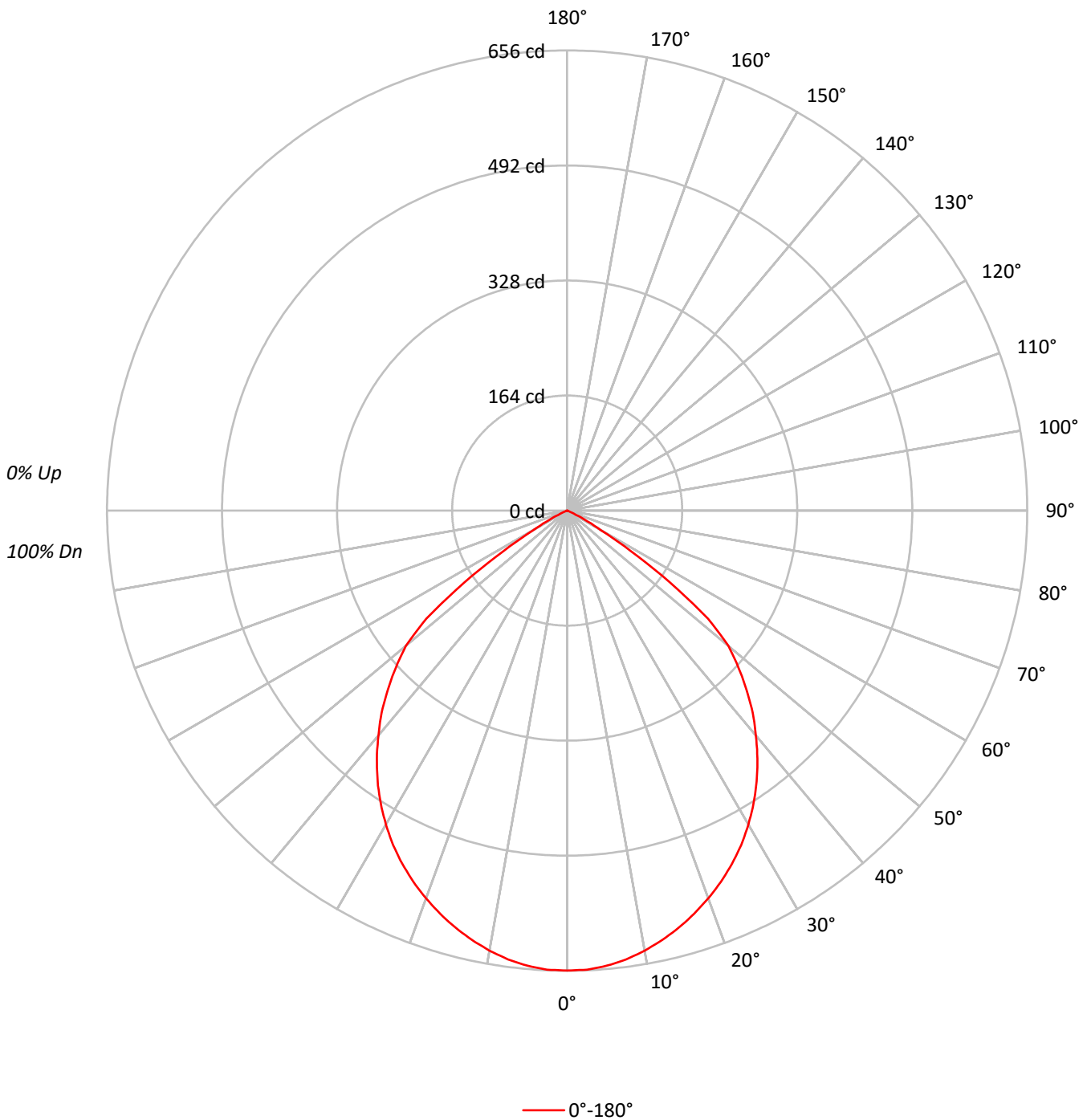
Lumens per Lamp: N/A
Luminaire Lumens: 1240.2 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.27
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 16.4
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	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63
5	84	73	65	60	82	72	65	60	70	64	59	68	63	58	66	62	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	47	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	43	39	49	43	39	48	43	39	37
10	60	48	41	36	59	47	40	36	46	40	36	45	40	35	45	39	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3235
5°	3226
10°	3191
15°	3144
20°	3089
25°	3026
30°	2944
35°	2838
40°	2697
45°	2525
50°	2302
55°	1539
60°	547
65°	126
70°	20
75°	21
80°	28
85°	34

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2525 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.7	5.0
10°-20°	173.5	14.0
20°-30°	255.8	20.6
30°-40°	293.9	23.7
40°-50°	278.3	22.4
50°-60°	158.4	12.8
60°-70°	16.8	1.4
70°-80°	1.2	0.1
80°-90°	0.6	0.0
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°	490.9	39.6
0°-40°	784.9	63.3
0°-60°	1221.6	98.5
0°-90°	1240.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1240.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	656	
5°	651	62
15°	616	173
25°	556	256
35°	471	294
45°	362	278
55°	179	158
65°	11	17
75°	1	1
85°	1	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	655.7
2.5°	655.0
5°	651.3
7.5°	645.3
10°	637.0
12.5°	626.9
15°	615.5
17.5°	602.5
20°	588.3
22.5°	572.8
25°	555.8
27.5°	537.5
30°	516.7
32.5°	494.8
35°	471.2
37.5°	445.6
40°	418.7
42.5°	391.6
45°	361.9
47.5°	331.1
50°	299.9
52.5°	253.2
55°	178.9
57.5°	106.7
60°	55.4
62.5°	27.7
65°	10.8
67.5°	2.1
70°	1.4
72.5°	1.3
75°	1.1
77.5°	1.0
80°	1.0
82.5°	0.7
85°	0.6
87.5°	0.3
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	9.97	11.33	10.34	11.65	11.96	9.97	11.33	10.34	11.65	11.96
	3H	9.85	11.04	10.23	11.37	11.74	9.85	11.04	10.23	11.37	11.74
	4H	9.78	10.89	10.18	11.24	11.62	9.78	10.89	10.18	11.24	11.62
	6H	9.70	10.72	10.12	11.09	11.48	9.70	10.72	10.12	11.09	11.48
	8H	9.66	10.62	10.09	11.01	11.42	9.66	10.62	10.09	11.01	11.42
	12H	9.62	10.54	10.05	10.92	11.35	9.62	10.54	10.05	10.92	11.35
4H	2H	9.80	10.91	10.20	11.26	11.64	9.80	10.91	10.20	11.26	11.64
	3H	9.67	10.56	10.09	10.97	11.37	9.67	10.56	10.09	10.97	11.37
	4H	9.59	10.38	10.02	10.80	11.24	9.59	10.38	10.02	10.80	11.24
	6H	9.51	10.19	9.97	10.64	11.10	9.51	10.19	9.97	10.64	11.10
	8H	9.45	10.09	9.92	10.53	11.01	9.45	10.09	9.92	10.53	11.01
	12H	9.41	9.97	9.89	10.45	10.92	9.41	9.97	9.89	10.45	10.92
8H	4H	9.45	10.08	9.92	10.53	11.00	9.45	10.08	9.92	10.53	11.00
	6H	9.35	9.87	9.85	10.36	10.85	9.35	9.87	9.85	10.36	10.85
	8H	9.28	9.75	9.80	10.27	10.76	9.28	9.75	9.80	10.27	10.76
	12H	9.23	9.66	9.74	10.15	10.72	9.23	9.66	9.74	10.15	10.72
12H	4H	9.40	9.96	9.89	10.45	10.92	9.40	9.96	9.89	10.45	10.92
	6H	9.28	9.75	9.80	10.27	10.76	9.28	9.75	9.80	10.27	10.76
	8H	9.23	9.65	9.74	10.15	10.72	9.23	9.65	9.74	10.15	10.72