

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: P866348

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866348
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-41)
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-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

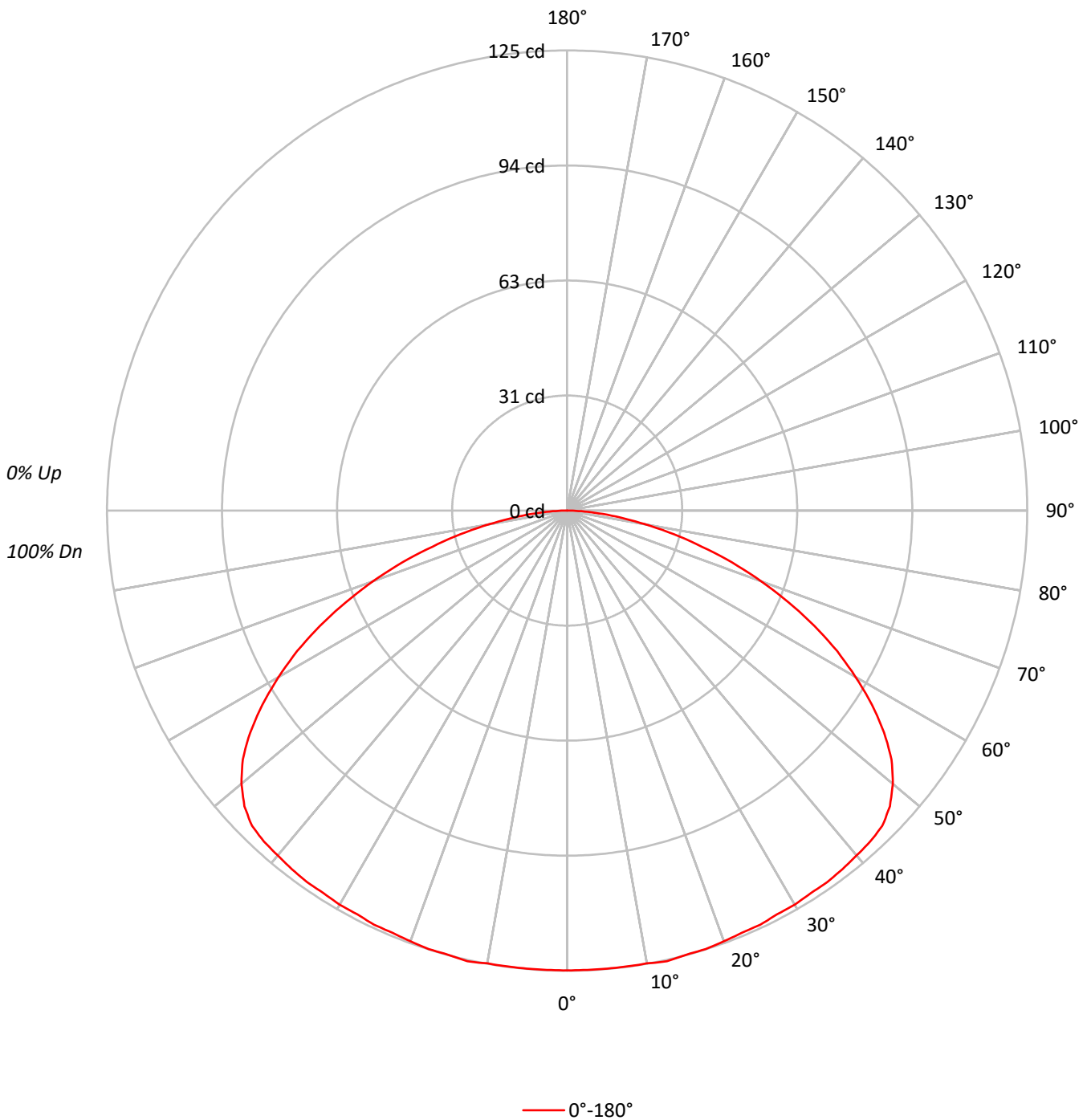
Lumens per Lamp: N/A
Luminaire Lumens: 492.1 lumens
Efficiency: N/A
Efficacy: 35.2 lumens/watt
Spacing Criteria (0/90/45): 1.51 / 1.51 / 1.67
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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	108	103	98	94	105	100	96	92	96	93	90		92	89	87		89	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72		80	75	71		76	72	69	67
3	88	77	68	61	85	75	67	60	72	65	59		69	63	58		67	61	57	55
4	80	67	58	51	78	66	57	50	63	56	49		61	54	49		59	53	48	46
5	73	59	50	43	71	58	49	42	56	48	42		54	47	41		52	46	41	39
6	67	53	43	37	65	52	43	37	50	42	36		48	41	36		47	40	35	33
7	62	48	38	32	60	47	38	32	45	37	32		44	37	31		42	36	31	29
8	57	43	34	28	56	42	34	28	41	33	28		40	33	28		39	32	27	25
9	53	39	31	25	52	39	31	25	38	30	25		36	30	25		35	29	24	23
10	50	36	28	22	49	36	28	22	35	27	22		34	27	22		33	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	994
5°	997
10°	1009
15°	1029
20°	1054
25°	1089
30°	1135
35°	1197
40°	1270
45°	1363
50°	1430
55°	1458
60°	1440
65°	1395
70°	1303
75°	1165
80°	985
85°	785

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 1458 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.9	2.4
10°-20°	35.4	7.2
20°-30°	57.4	11.7
30°-40°	77.3	15.7
40°-50°	93.0	18.9
50°-60°	93.4	19.0
60°-70°	73.0	14.8
70°-80°	40.4	8.2
80°-90°	10.3	2.1
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°	104.7	21.3
0°-40°	182.0	37.0
0°-60°	368.4	74.9
0°-90°	492.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	492.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	125	
5°	125	12
15°	125	35
25°	124	57
35°	123	77
45°	121	93
55°	105	93
65°	74	73
75°	38	40
85°	9	10
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	124.9
2.5°	124.9
5°	124.9
7.5°	124.9
10°	124.9
12.5°	125.4
15°	124.9
17.5°	124.9
20°	124.5
22.5°	124.1
25°	124.1
27.5°	123.6
30°	123.6
32.5°	123.2
35°	123.2
37.5°	122.8
40°	122.3
42.5°	121.9
45°	121.1
47.5°	118.9
50°	115.5
52.5°	111.1
55°	105.1
57.5°	98.2
60°	90.5
62.5°	82.7
65°	74.1
67.5°	65.1
70°	56.0
72.5°	47.0
75°	37.9
77.5°	29.7
80°	21.5
82.5°	14.6
85°	8.6
87.5°	3.9
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	14.00	15.74	14.37	16.05	16.37	14.00	15.74	14.37	16.05	16.37
	3H	15.84	17.41	16.21	17.74	18.10	15.84	17.41	16.21	17.74	18.10
	4H	16.48	17.97	16.88	18.31	18.69	16.48	17.97	16.88	18.31	18.69
	6H	16.92	18.31	17.33	18.67	19.06	16.92	18.31	17.33	18.67	19.06
	8H	17.05	18.37	17.47	18.76	19.16	17.05	18.37	17.47	18.76	19.16
	12H	17.13	18.40	17.56	18.78	19.21	17.13	18.40	17.56	18.78	19.21
4H	2H	14.67	16.16	15.07	16.51	16.88	14.67	16.16	15.07	16.51	16.88
	3H	16.71	17.97	17.12	18.36	18.76	16.71	17.97	17.12	18.36	18.76
	4H	17.48	18.61	17.91	19.02	19.46	17.48	18.61	17.91	19.02	19.46
	6H	18.03	19.03	18.49	19.47	19.92	18.03	19.03	18.49	19.47	19.92
	8H	18.21	19.14	18.66	19.58	20.04	18.21	19.14	18.66	19.58	20.04
	12H	18.33	19.17	18.80	19.64	20.11	18.33	19.17	18.80	19.64	20.11
8H	4H	17.78	18.72	18.24	19.16	19.62	17.78	18.72	18.24	19.16	19.62
	6H	18.45	19.23	18.94	19.71	20.18	18.45	19.23	18.94	19.71	20.18
	8H	18.68	19.38	19.18	19.88	20.36	18.68	19.38	19.18	19.88	20.36
	12H	18.86	19.48	19.36	19.97	20.52	18.86	19.48	19.36	19.97	20.52
12H	4H	17.82	18.66	18.29	19.13	19.60	17.82	18.66	18.29	19.13	19.60
	6H	18.50	19.20	19.00	19.70	20.18	18.50	19.20	19.00	19.70	20.18
	8H	18.78	19.40	19.28	19.89	20.44	18.78	19.40	19.28	19.89	20.44