

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: P865713

Luminaire Tested: PRLX-2002-S-940-15L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-S-940-15L-L-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

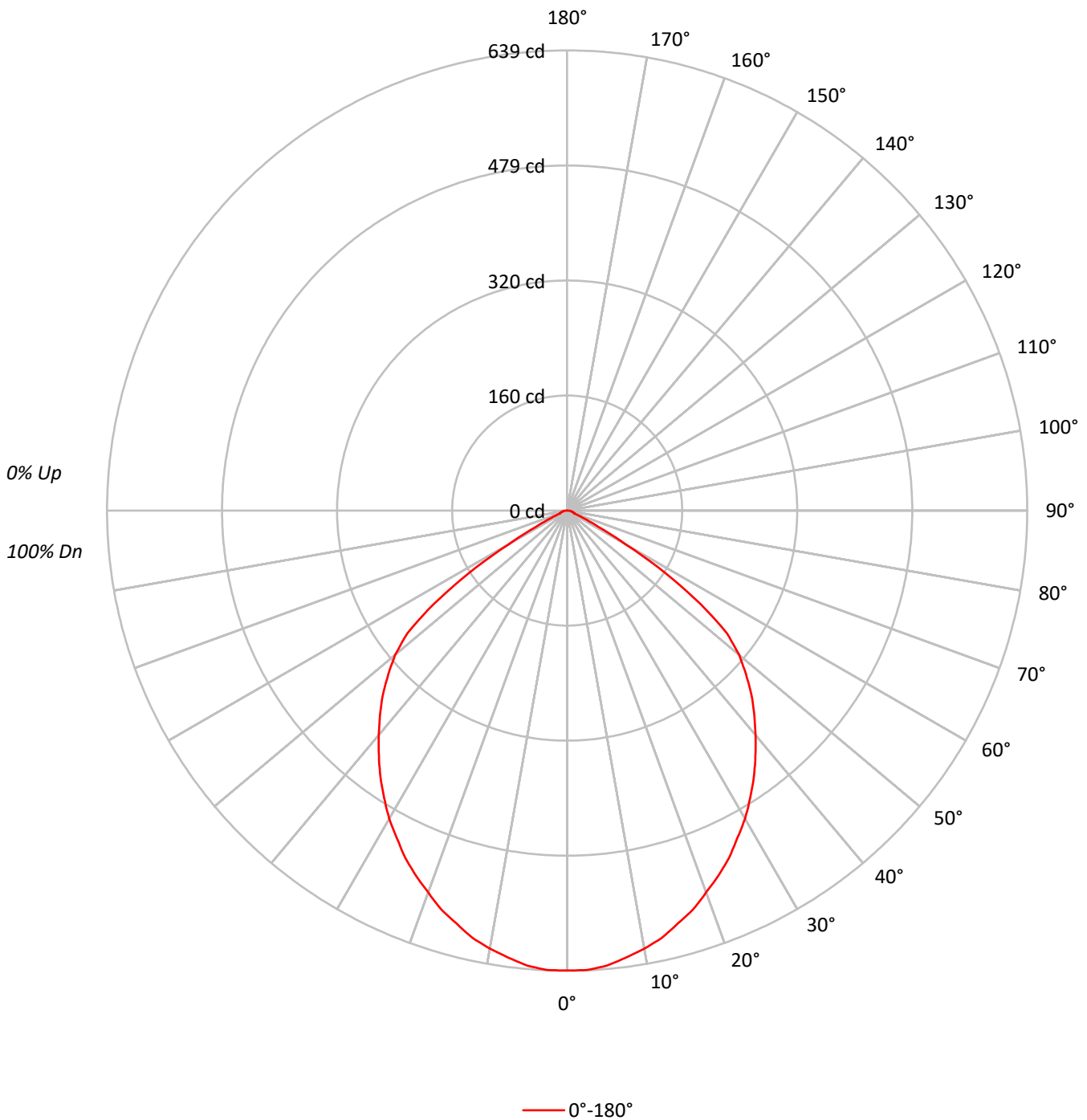
Lumens per Lamp: N/A
Luminaire Lumens: 1272.3 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 15.6
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

TEST NUMBER: P865713

CATALOG NUMBER: PRLX-2002-S-940-15L-L-U-S-X-X-BRSS-X

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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	79
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	71	66	87	77	70	65	75	69	64	73	68	63	71	66	63	61
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	65	60	56	54
6	76	65	57	51	75	64	56	51	62	55	50	60	55	50	59	54	50	48
7	71	59	51	46	70	58	51	46	57	50	45	55	49	45	54	49	45	43
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	37	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	11996
5°	11962
10°	11780
15°	11546
20°	11280
25°	11026
30°	10717
35°	10365
40°	9980
45°	9619
50°	9106
55°	7401
60°	3531
65°	1125
70°	538
75°	610
80°	606
85°	905

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9619 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.0	4.7
10°-20°	167.4	13.2
20°-30°	244.6	19.2
30°-40°	282.4	22.2
40°-50°	278.4	21.9
50°-60°	193.4	15.2
60°-70°	33.6	2.6
70°-80°	8.7	0.7
80°-90°	3.8	0.3
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°	472.0	37.1
0°-40°	754.4	59.3
0°-60°	1226.2	96.4
0°-90°	1272.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1272.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	639	
5°	634	60
15°	594	167
25°	532	245
35°	452	282
45°	362	278
55°	226	193
65°	25	34
75°	8	9
85°	4	4
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	638.6
2.5°	638.6
5°	634.4
7.5°	626.0
10°	617.6
12.5°	607.8
15°	593.7
17.5°	581.1
20°	564.3
22.5°	548.8
25°	532.0
27.5°	512.3
30°	494.1
32.5°	473.0
35°	452.0
37.5°	429.5
40°	407.0
42.5°	384.6
45°	362.1
47.5°	336.9
50°	311.6
52.5°	279.3
55°	226.0
57.5°	162.8
60°	94.0
62.5°	49.1
65°	25.3
67.5°	11.2
70°	9.8
72.5°	9.8
75°	8.4
77.5°	7.0
80°	5.6
82.5°	5.6
85°	4.2
87.5°	1.4
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	17.42	18.84	17.79	19.15	19.47	17.42	18.84	17.79	19.15	19.47
	3H	17.33	18.58	17.71	18.91	19.27	17.33	18.58	17.71	18.91	19.27
	4H	17.29	18.45	17.69	18.80	19.18	17.29	18.45	17.69	18.80	19.18
	6H	17.24	18.31	17.65	18.68	19.07	17.24	18.31	17.65	18.68	19.07
	8H	17.22	18.23	17.65	18.62	19.02	17.22	18.23	17.65	18.62	19.02
	12H	17.20	18.16	17.63	18.55	18.98	17.20	18.16	17.63	18.55	18.98
4H	2H	17.28	18.44	17.68	18.79	19.18	17.28	18.44	17.68	18.79	19.18
	3H	17.21	18.15	17.62	18.55	18.95	17.21	18.15	17.62	18.55	18.95
	4H	17.17	18.00	17.60	18.42	18.86	17.17	18.00	17.60	18.42	18.86
	6H	17.13	17.85	17.59	18.30	18.76	17.13	17.85	17.59	18.30	18.76
	8H	17.11	17.78	17.58	18.23	18.70	17.11	17.78	17.58	18.23	18.70
	12H	17.10	17.70	17.59	18.18	18.65	17.10	17.70	17.59	18.18	18.65
8H	4H	17.06	17.73	17.52	18.18	18.65	17.06	17.73	17.52	18.18	18.65
	6H	17.02	17.57	17.52	18.07	18.55	17.02	17.57	17.52	18.07	18.55
	8H	17.00	17.51	17.52	18.02	18.51	17.00	17.51	17.52	18.02	18.51
	12H	17.01	17.47	17.53	17.96	18.53	17.01	17.47	17.53	17.96	18.53
12H	4H	17.02	17.61	17.50	18.09	18.57	17.02	17.61	17.50	18.09	18.57
	6H	16.96	17.47	17.48	17.98	18.47	16.96	17.47	17.48	17.98	18.47
	8H	16.97	17.43	17.49	17.92	18.49	16.97	17.43	17.49	17.92	18.49