

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: P865709

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865709
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-S-940-15L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

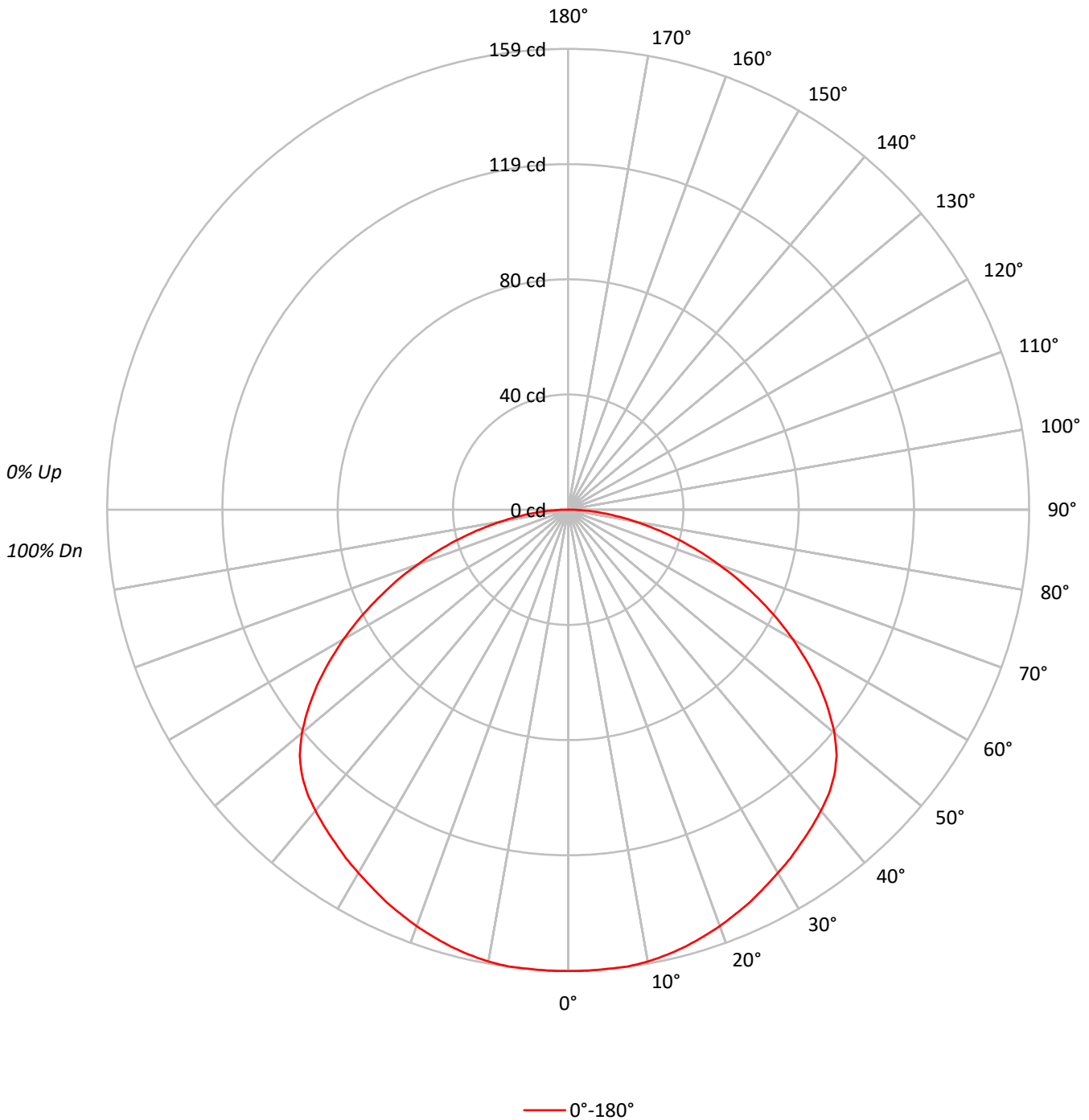
Lumens per Lamp: N/A
Luminaire Lumens: 534.9 lumens
Efficiency: N/A
Efficacy: 34.3 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

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

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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	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		77	74	70	68
3	89	78	69	63	86	76	68	62	73	66	61		70	65	60		68	63	59	56
4	81	69	59	52	79	67	59	52	65	57	51		62	56	51		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	29		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°	2990
5°	2998
10°	3019
15°	3036
20°	3056
25°	3090
30°	3139
35°	3215
40°	3325
45°	3448
50°	3504
55°	3465
60°	3362
65°	3214
70°	3032
75°	2809
80°	2531
85°	2263

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 3504 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.2	2.8
10°-20°	44.1	8.2
20°-30°	68.8	12.9
30°-40°	88.0	16.4
40°-50°	99.8	18.7
50°-60°	94.2	17.6
60°-70°	71.6	13.4
70°-80°	41.1	7.7
80°-90°	12.1	2.3
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°	128.1	23.9
0°-40°	216.1	40.4
0°-60°	410.1	76.7
0°-90°	534.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	534.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	159	
5°	159	15
15°	156	44
25°	149	69
35°	140	88
45°	130	100
55°	106	94
65°	72	72
75°	39	41
85°	10	12
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	159.2
2.5°	159.2
5°	159.0
7.5°	158.9
10°	158.3
12.5°	157.3
15°	156.1
17.5°	154.5
20°	152.9
22.5°	151.0
25°	149.1
27.5°	146.8
30°	144.7
32.5°	142.6
35°	140.2
37.5°	138.0
40°	135.6
42.5°	133.1
45°	129.8
47.5°	125.6
50°	119.9
52.5°	113.1
55°	105.8
57.5°	97.7
60°	89.5
62.5°	81.0
65°	72.3
67.5°	63.9
70°	55.2
72.5°	47.0
75°	38.7
77.5°	31.0
80°	23.4
82.5°	16.7
85°	10.5
87.5°	5.5
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	16.71	18.41	17.08	18.72	19.04	16.71	18.41	17.08	18.72	19.04
	3H	18.51	20.05	18.89	20.37	20.73	18.51	20.05	18.89	20.37	20.73
	4H	19.18	20.63	19.58	20.98	21.35	19.18	20.63	19.58	20.98	21.35
	6H	19.68	21.03	20.09	21.39	21.78	19.68	21.03	20.09	21.39	21.78
	8H	19.85	21.13	20.27	21.52	21.92	19.85	21.13	20.27	21.52	21.92
	12H	19.96	21.20	20.39	21.58	22.01	19.96	21.20	20.39	21.58	22.01
4H	2H	17.35	18.80	17.75	19.15	19.52	17.35	18.80	17.75	19.15	19.52
	3H	19.37	20.59	19.78	20.99	21.38	19.37	20.59	19.78	20.99	21.38
	4H	20.17	21.28	20.60	21.69	22.12	20.17	21.28	20.60	21.69	22.12
	6H	20.80	21.77	21.25	22.21	22.66	20.80	21.77	21.25	22.21	22.66
	8H	21.02	21.92	21.48	22.37	22.83	21.02	21.92	21.48	22.37	22.83
	12H	21.18	22.00	21.66	22.48	22.94	21.18	22.00	21.66	22.48	22.94
8H	4H	20.49	21.40	20.95	21.84	22.30	20.49	21.40	20.95	21.84	22.30
	6H	21.25	22.00	21.74	22.49	22.96	21.25	22.00	21.74	22.49	22.96
	8H	21.54	22.22	22.04	22.72	23.21	21.54	22.22	22.04	22.72	23.21
	12H	21.78	22.39	22.29	22.87	23.43	21.78	22.39	22.29	22.87	23.43
12H	4H	20.53	21.35	21.01	21.82	22.29	20.53	21.35	21.01	21.82	22.29
	6H	21.31	21.99	21.81	22.49	22.98	21.31	21.99	21.81	22.49	22.98
	8H	21.66	22.26	22.16	22.75	23.31	21.66	22.26	22.16	22.75	23.31