

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: P865495

Luminaire Tested: PRLX-2001-S-935-05L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865495
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-935-05L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

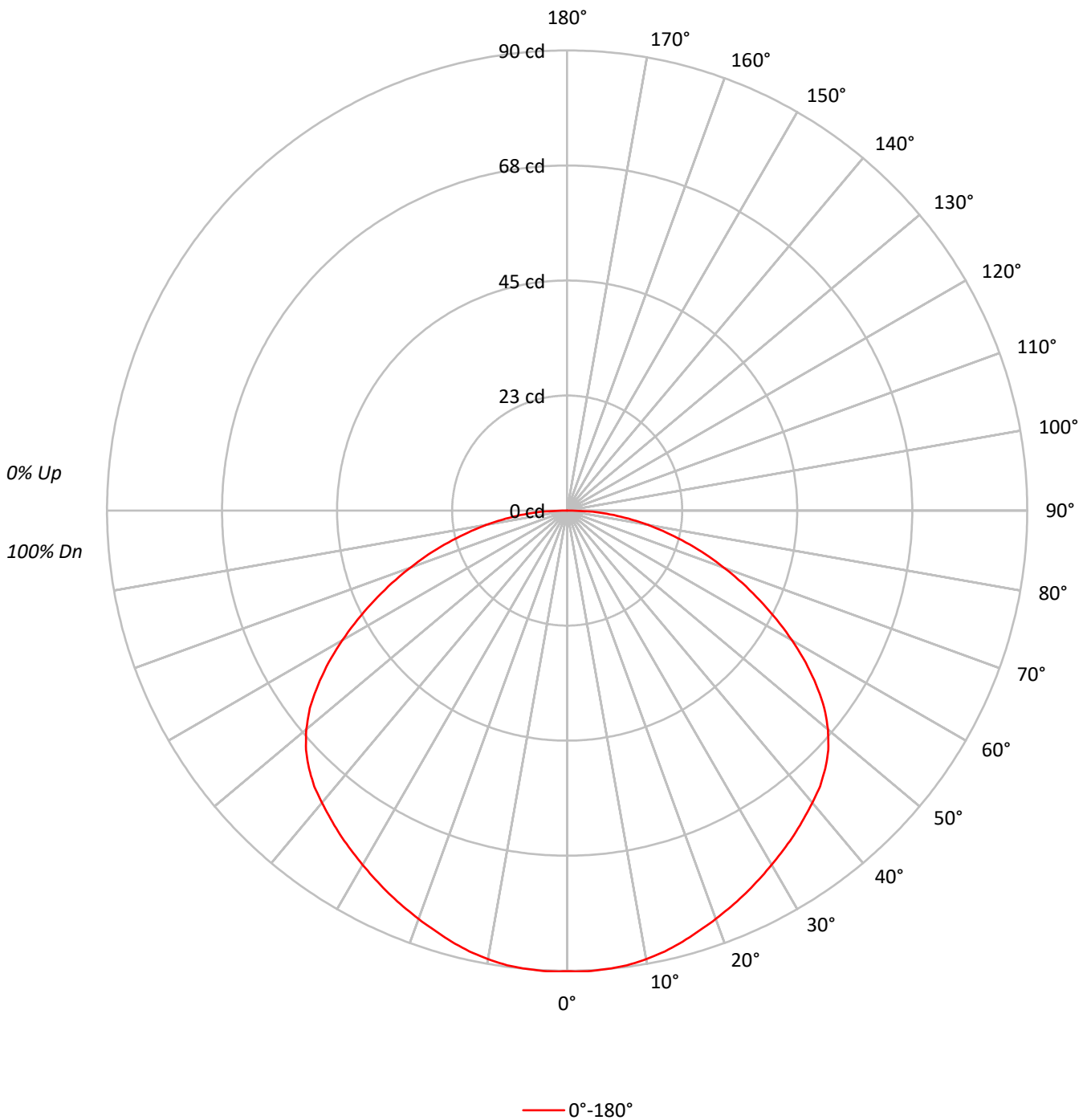
Lumens per Lamp: N/A
Luminaire Lumens: 303.7 lumens
Efficiency: N/A
Efficacy: 49.0 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.5
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 6.2
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	92	89	92	89	86	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35
7	63	49	40	33	61	48	39	33	46	38	33	45	38	33	43	37	32	30
8	58	44	35	29	57	44	35	29	42	35	29	41	34	29	40	33	29	27
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	23	34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1470
5°	1474
10°	1476
15°	1474
20°	1475
25°	1486
30°	1507
35°	1541
40°	1588
45°	1647
50°	1690
55°	1692
60°	1657
65°	1605
70°	1555
75°	1512
80°	1503
85°	1572

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 1870 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.6	2.8
10°-20°	24.7	8.1
20°-30°	38.1	12.6
30°-40°	48.5	16.0
40°-50°	55.0	18.1
50°-60°	53.0	17.5
60°-70°	41.2	13.6
70°-80°	25.5	8.4
80°-90°	9.1	3.0
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°	71.4	23.5
0°-40°	119.9	39.5
0°-60°	227.9	75.0
0°-90°	303.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	303.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	90	
5°	90	9
15°	87	25
25°	83	38
35°	77	49
45°	71	55
55°	60	53
65°	42	41
75°	24	25
85°	8	9
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	90.1
2.5°	90.2
5°	90.0
7.5°	89.7
10°	89.1
12.5°	88.3
15°	87.3
17.5°	86.1
20°	85.0
22.5°	83.8
25°	82.6
27.5°	81.3
30°	80.0
32.5°	78.7
35°	77.4
37.5°	76.0
40°	74.6
42.5°	73.2
45°	71.4
47.5°	69.3
50°	66.6
52.5°	63.4
55°	59.5
57.5°	55.3
60°	50.8
62.5°	46.2
65°	41.6
67.5°	37.1
70°	32.6
72.5°	28.4
75°	24.0
77.5°	19.9
80°	16.0
82.5°	12.1
85°	8.4
87.5°	5.0
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	14.21	15.92	14.58	16.24	16.55	14.21	15.92	14.58	16.24	16.55
	3H	16.11	17.66	16.48	17.99	18.34	16.11	17.66	16.48	17.99	18.34
	4H	16.87	18.34	17.27	18.69	19.06	16.87	18.34	17.27	18.69	19.06
	6H	17.51	18.87	17.92	19.24	19.63	17.51	18.87	17.92	19.24	19.63
	8H	17.76	19.06	18.18	19.45	19.85	17.76	19.06	18.18	19.45	19.85
	12H	17.96	19.21	18.39	19.60	20.02	17.96	19.21	18.39	19.60	20.02
4H	2H	14.87	16.34	15.27	16.69	17.06	14.87	16.34	15.27	16.69	17.06
	3H	17.00	18.24	17.41	18.64	19.04	17.00	18.24	17.41	18.64	19.04
	4H	17.91	19.04	18.34	19.45	19.88	17.91	19.04	18.34	19.45	19.88
	6H	18.70	19.69	19.15	20.13	20.58	18.70	19.69	19.15	20.13	20.58
	8H	19.01	19.94	19.47	20.38	20.85	19.01	19.94	19.47	20.38	20.85
	12H	19.29	20.13	19.76	20.60	21.07	19.29	20.13	19.76	20.60	21.07
8H	4H	18.29	19.22	18.74	19.66	20.12	18.29	19.22	18.74	19.66	20.12
	6H	19.23	20.01	19.72	20.49	20.97	19.23	20.01	19.72	20.49	20.97
	8H	19.64	20.35	20.15	20.85	21.33	19.64	20.35	20.15	20.85	21.33
	12H	20.03	20.65	20.53	21.14	21.69	20.03	20.65	20.53	21.14	21.69
12H	4H	18.34	19.18	18.82	19.66	20.12	18.34	19.18	18.82	19.66	20.12
	6H	19.32	20.03	19.83	20.53	21.01	19.32	20.03	19.83	20.53	21.01
	8H	19.81	20.44	20.32	20.92	21.48	19.81	20.44	20.32	20.92	21.48