

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: P865538

Luminaire Tested: PRLX-2001-S-940-05L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865538
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-940-05L-L-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

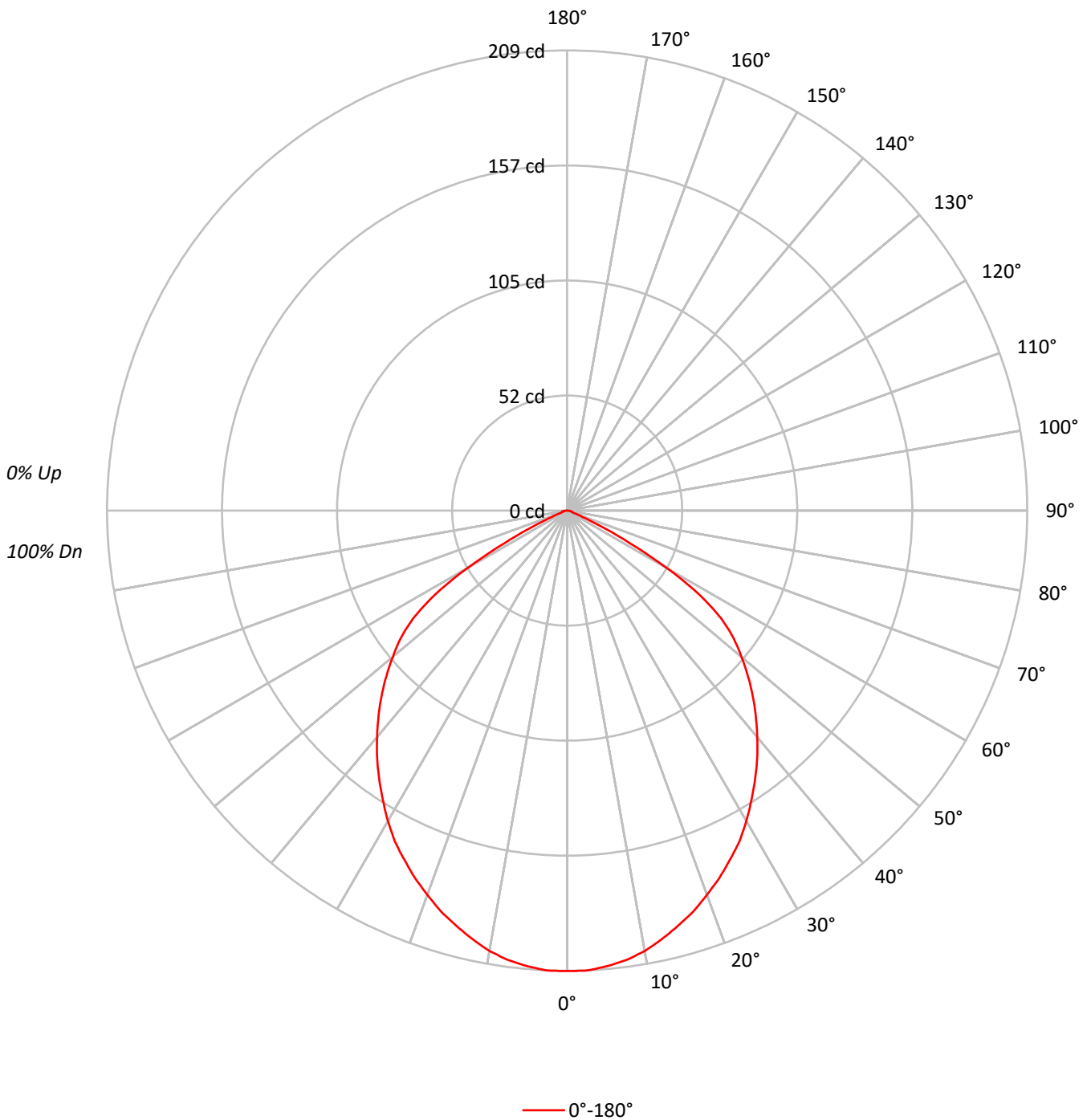
Lumens per Lamp: N/A
Luminaire Lumens: 438.1 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.28
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	80	78
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68
4	88	77	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52
6	75	63	55	50	74	62	55	49	61	54	49	59	53	49	58	52	48	46
7	70	58	50	44	68	57	49	44	56	49	44	54	48	43	53	47	43	41
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3410
5°	3401
10°	3364
15°	3294
20°	3223
25°	3149
30°	3066
35°	2963
40°	2859
45°	2752
50°	2624
55°	2434
60°	1726
65°	633
70°	157
75°	145
80°	178
85°	168

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2752 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.7	4.5
10°-20°	55.0	12.6
20°-30°	80.6	18.4
30°-40°	93.1	21.2
40°-50°	91.9	21.0
50°-60°	73.8	16.8
60°-70°	20.6	4.7
70°-80°	2.4	0.5
80°-90°	1.0	0.2
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°	155.3	35.5
0°-40°	248.4	56.7
0°-60°	414.1	94.5
0°-90°	438.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	438.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	209	
5°	208	20
15°	195	55
25°	175	81
35°	149	93
45°	119	92
55°	86	74
65°	16	21
75°	2	2
85°	1	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	209.1
2.5°	209.1
5°	207.7
7.5°	205.9
10°	203.1
12.5°	199.3
15°	195.1
17.5°	190.9
20°	185.7
22.5°	180.6
25°	175.0
27.5°	169.4
30°	162.8
32.5°	155.8
35°	148.8
37.5°	141.8
40°	134.3
42.5°	126.8
45°	119.3
47.5°	111.4
50°	103.4
52.5°	95.4
55°	85.6
57.5°	71.6
60°	52.9
62.5°	32.3
65°	16.4
67.5°	7.5
70°	3.3
72.5°	2.3
75°	2.3
77.5°	1.9
80°	1.9
82.5°	1.4
85°	0.9
87.5°	0.5
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	14.97	16.42	15.33	16.74	17.05	14.97	16.42	15.33	16.74	17.05
	3H	14.89	16.18	15.27	16.51	16.87	14.89	16.18	15.27	16.51	16.87
	4H	14.83	16.03	15.24	16.38	16.76	14.83	16.03	15.24	16.38	16.76
	6H	14.78	15.88	15.19	16.24	16.64	14.78	15.88	15.19	16.24	16.64
	8H	14.74	15.79	15.17	16.18	16.58	14.74	15.79	15.17	16.18	16.58
	12H	14.71	15.71	15.14	16.09	16.52	14.71	15.71	15.14	16.09	16.52
4H	2H	14.89	16.09	15.29	16.44	16.82	14.89	16.09	15.29	16.44	16.82
	3H	14.82	15.79	15.23	16.19	16.60	14.82	15.79	15.23	16.19	16.60
	4H	14.76	15.62	15.19	16.04	16.48	14.76	15.62	15.19	16.04	16.48
	6H	14.71	15.45	15.17	15.90	16.36	14.71	15.45	15.17	15.90	16.36
	8H	14.67	15.36	15.13	15.81	16.28	14.67	15.36	15.13	15.81	16.28
	12H	14.64	15.25	15.12	15.73	16.21	14.64	15.25	15.12	15.73	16.21
8H	4H	14.64	15.34	15.11	15.78	16.25	14.64	15.34	15.11	15.78	16.25
	6H	14.58	15.15	15.08	15.64	16.12	14.58	15.15	15.08	15.64	16.12
	8H	14.53	15.05	15.05	15.56	16.05	14.53	15.05	15.05	15.56	16.05
	12H	14.51	14.97	15.02	15.46	16.03	14.51	14.97	15.02	15.46	16.03
12H	4H	14.60	15.22	15.09	15.70	16.18	14.60	15.22	15.09	15.70	16.18
	6H	14.52	15.04	15.04	15.55	16.04	14.52	15.04	15.04	15.55	16.04
	8H	14.50	14.96	15.01	15.45	16.02	14.50	14.96	15.01	15.45	16.02