

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: P865412

Luminaire Tested: PRLX-2001-S-927-05L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865412
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-927-05L-G-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

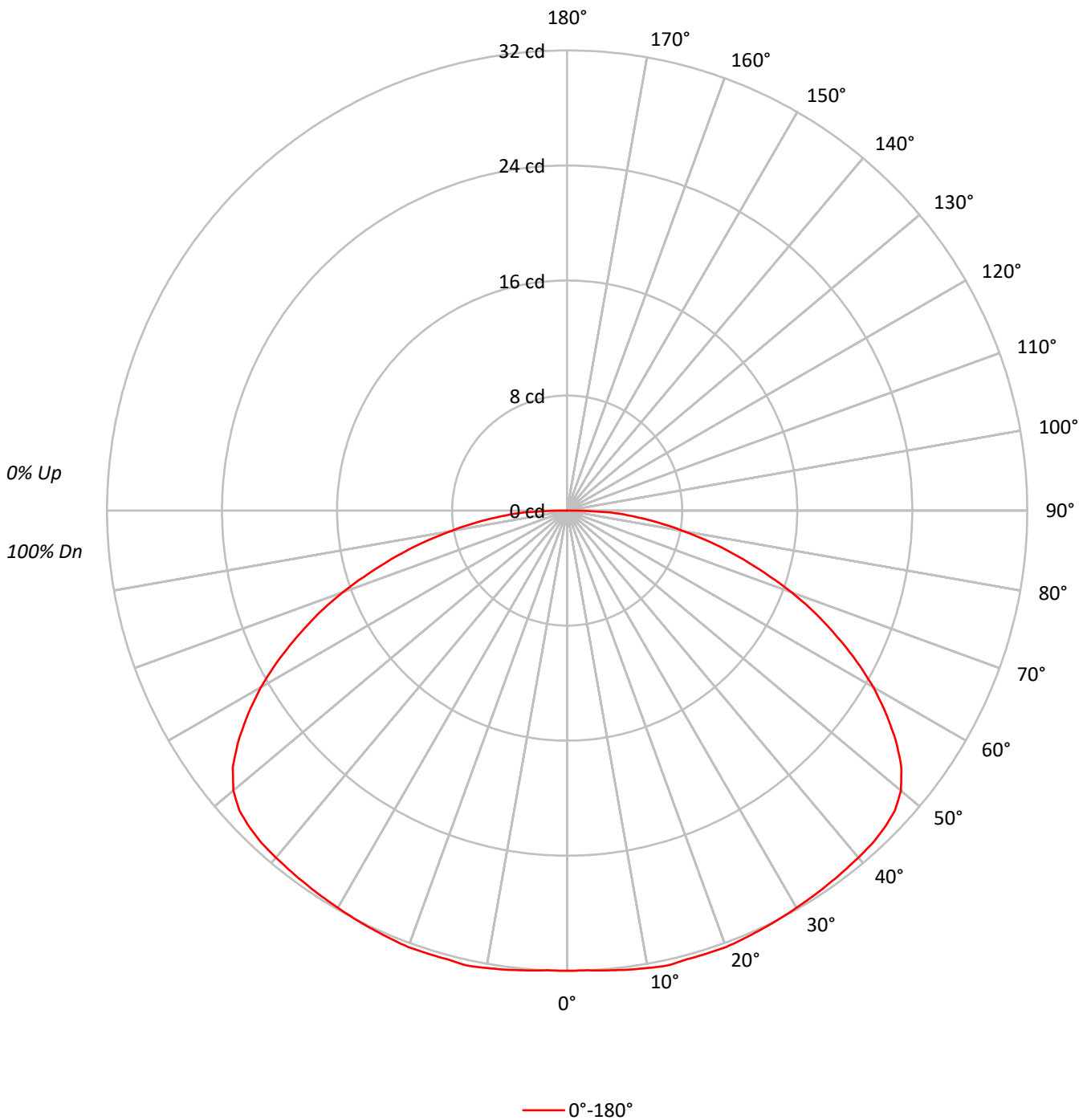
Lumens per Lamp: N/A
Luminaire Lumens: 134.3 lumens
Efficiency: N/A
Efficacy: 21.7 lumens/watt
Spacing Criteria (0/90/45): 1.52 / 1.52 / 1.69
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

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	107	101	97	92	104	99	95	91	95	91	88	91	88	85	87	85	82	80
2	96	87	79	73	93	85	78	72	81	75	70	78	73	68	75	71	67	64
3	87	75	66	59	84	73	65	58	70	63	57	67	61	56	65	60	55	53
4	79	66	56	49	76	64	55	48	62	54	47	59	52	47	57	51	46	44
5	72	58	48	41	70	57	48	41	55	46	40	52	45	40	51	44	39	37
6	66	52	42	35	64	51	42	35	49	41	35	47	40	34	45	39	34	32
7	61	46	37	30	59	46	37	30	44	36	30	43	35	30	41	35	30	27
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	37	31	26	24
9	53	38	30	24	51	38	29	24	37	29	24	35	28	23	34	28	23	21
10	49	35	27	21	48	35	27	21	34	26	21	33	26	21	32	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	522
5°	526
10°	535
15°	545
20°	561
25°	578
30°	601
35°	631
40°	671
45°	720
50°	769
55°	793
60°	802
65°	799
70°	792
75°	775
80°	770
85°	861

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 1122 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	2.3
10°-20°	9.2	6.8
20°-30°	14.9	11.1
30°-40°	19.9	14.8
40°-50°	24.1	17.9
50°-60°	24.8	18.5
60°-70°	20.5	15.2
70°-80°	13.0	9.7
80°-90°	4.9	3.7
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°	27.1	20.2
0°-40°	47.0	35.0
0°-60°	95.9	71.4
0°-90°	134.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	134.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	32	
5°	32	3
15°	32	9
25°	32	15
35°	32	20
45°	31	24
55°	28	25
65°	21	20
75°	12	13
85°	5	5
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	32.0
2.5°	32.0
5°	32.1
7.5°	32.2
10°	32.3
12.5°	32.4
15°	32.3
17.5°	32.3
20°	32.3
22.5°	32.2
25°	32.1
27.5°	32.0
30°	31.9
32.5°	31.8
35°	31.7
37.5°	31.6
40°	31.5
42.5°	31.4
45°	31.2
47.5°	30.9
50°	30.3
52.5°	29.3
55°	27.9
57.5°	26.3
60°	24.6
62.5°	22.7
65°	20.7
67.5°	18.7
70°	16.6
72.5°	14.4
75°	12.3
77.5°	10.3
80°	8.2
82.5°	6.4
85°	4.6
87.5°	3.0
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	11.82	13.59	12.18	13.90	14.21	11.82	13.59	12.18	13.90	14.21
	3H	13.90	15.52	14.28	15.84	16.20	13.90	15.52	14.28	15.84	16.20
	4H	14.73	16.26	15.13	16.61	16.98	14.73	16.26	15.13	16.61	16.98
	6H	15.43	16.85	15.84	17.22	17.60	15.43	16.85	15.84	17.22	17.60
	8H	15.71	17.07	16.13	17.46	17.85	15.71	17.07	16.13	17.46	17.85
	12H	15.95	17.26	16.38	17.64	18.07	15.95	17.26	16.38	17.64	18.07
4H	2H	12.55	14.07	12.94	14.42	14.79	12.55	14.07	12.94	14.42	14.79
	3H	14.86	16.16	15.27	16.55	16.95	14.86	16.16	15.27	16.55	16.95
	4H	15.83	17.02	16.26	17.43	17.86	15.83	17.02	16.26	17.43	17.86
	6H	16.68	17.72	17.13	18.16	18.61	16.68	17.72	17.13	18.16	18.61
	8H	17.03	18.01	17.48	18.44	18.91	17.03	18.01	17.48	18.44	18.91
	12H	17.34	18.23	17.82	18.70	19.17	17.34	18.23	17.82	18.70	19.17
8H	4H	16.24	17.22	16.70	17.66	18.12	16.24	17.22	16.70	17.66	18.12
	6H	17.25	18.07	17.74	18.55	19.03	17.25	18.07	17.74	18.55	19.03
	8H	17.70	18.44	18.20	18.94	19.43	17.70	18.44	18.20	18.94	19.43
	12H	18.14	18.80	18.64	19.29	19.84	18.14	18.80	18.64	19.29	19.84
12H	4H	16.31	17.20	16.79	17.67	18.13	16.31	17.20	16.79	17.67	18.13
	6H	17.35	18.10	17.86	18.60	19.08	17.35	18.10	17.86	18.60	19.08
	8H	17.89	18.55	18.39	19.04	19.59	17.89	18.55	18.39	19.04	19.59