

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: P865414

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865414
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-5)
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-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

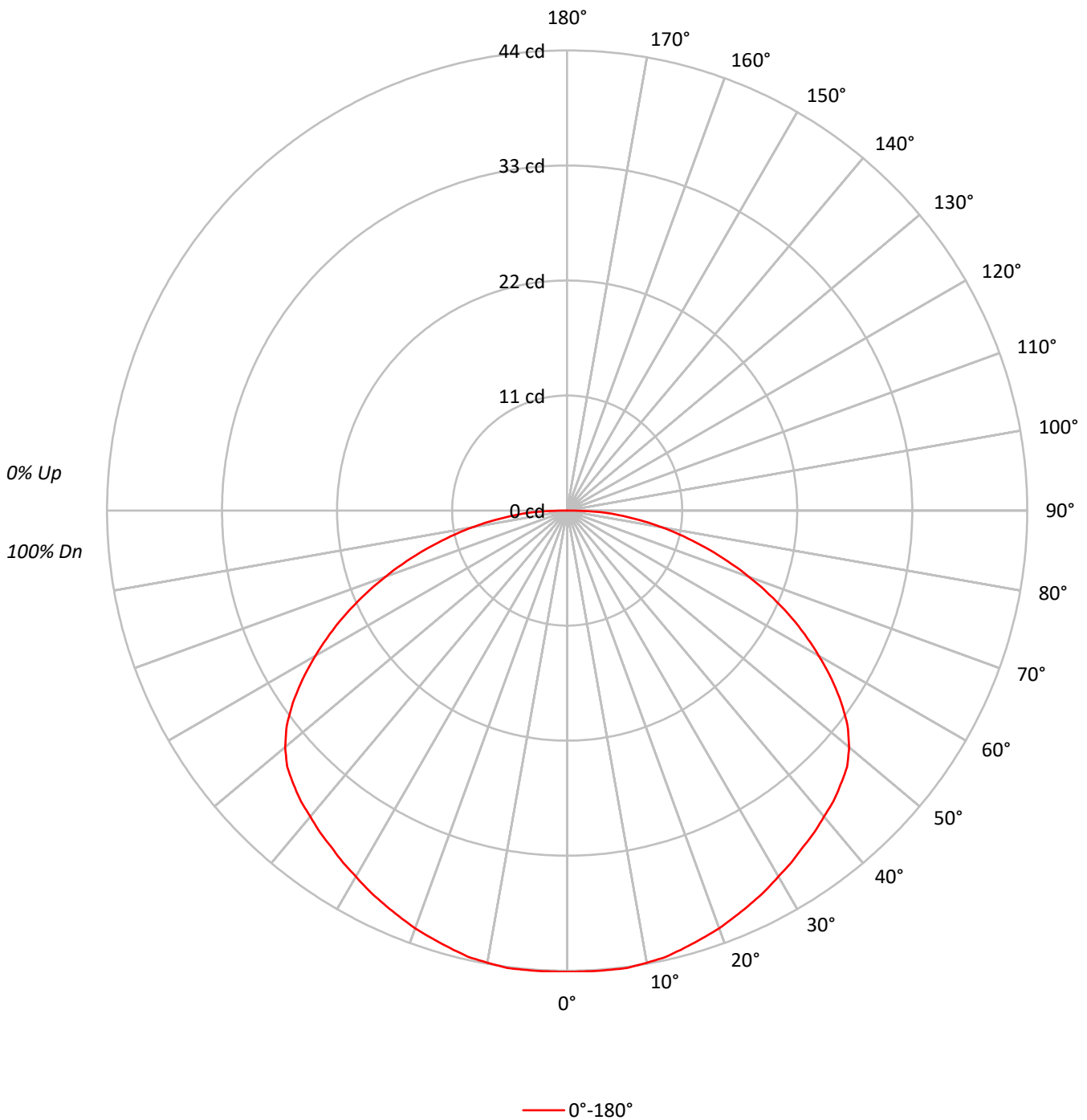
Lumens per Lamp: N/A
Luminaire Lumens: 160.3 lumens
Efficiency: N/A
Efficacy: 25.9 lumens/watt
Spacing Criteria (0/90/45): 1.38 / 1.38 / 1.55
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

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	102	97	93	105	100	95	91	95	92	88	91	88	86	88	85	83	81
2	97	88	80	74	94	86	79	73	82	76	71	79	74	70	76	72	68	66
3	88	76	67	60	85	75	66	60	71	64	59	69	63	58	66	61	56	54
4	80	67	57	50	77	65	57	50	63	55	49	60	54	48	58	52	48	45
5	73	59	50	43	71	58	49	42	56	48	42	54	47	41	52	46	41	39
6	67	53	44	37	65	52	43	37	50	42	36	48	41	36	47	40	35	33
7	62	48	39	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29
8	58	43	34	28	56	43	34	28	41	34	28	40	33	28	39	32	28	26
9	54	40	31	25	52	39	31	25	38	30	25	37	30	25	36	29	25	23
10	50	36	28	23	49	36	28	23	35	28	23	34	27	22	33	27	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	719
5°	722
10°	727
15°	731
20°	738
25°	747
30°	761
35°	783
40°	813
45°	853
50°	893
55°	910
60°	907
65°	899
70°	882
75°	863
80°	864
85°	936

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 1197 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.2	2.6
10°-20°	12.2	7.6
20°-30°	19.2	12.0
30°-40°	24.7	15.4
40°-50°	28.6	17.8
50°-60°	28.5	17.8
60°-70°	23.0	14.4
70°-80°	14.5	9.1
80°-90°	5.4	3.4
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°	35.6	22.2
0°-40°	60.3	37.6
0°-60°	117.4	73.2
0°-90°	160.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	160.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	44	
5°	44	4
15°	43	12
25°	42	19
35°	39	25
45°	37	29
55°	32	28
65°	23	23
75°	14	15
85°	5	5
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	44.1
2.5°	44.1
5°	44.1
7.5°	44.1
10°	43.9
12.5°	43.7
15°	43.3
17.5°	42.9
20°	42.5
22.5°	42.0
25°	41.5
27.5°	41.0
30°	40.4
32.5°	39.9
35°	39.3
37.5°	38.8
40°	38.2
42.5°	37.7
45°	37.0
47.5°	36.3
50°	35.2
52.5°	33.8
55°	32.0
57.5°	30.0
60°	27.8
62.5°	25.6
65°	23.3
67.5°	20.9
70°	18.5
72.5°	16.1
75°	13.7
77.5°	11.4
80°	9.2
82.5°	7.0
85°	5.0
87.5°	3.2
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	12.16	13.89	12.52	14.21	14.52	12.16	13.89	12.52	14.21	14.52
	3H	14.17	15.75	14.55	16.08	16.44	14.17	15.75	14.55	16.08	16.44
	4H	14.98	16.48	15.38	16.83	17.20	14.98	16.48	15.38	16.83	17.20
	6H	15.66	17.05	16.07	17.42	17.81	15.66	17.05	16.07	17.42	17.81
	8H	15.93	17.26	16.35	17.65	18.05	15.93	17.26	16.35	17.65	18.05
	12H	16.16	17.43	16.58	17.82	18.24	16.16	17.43	16.58	17.82	18.24
4H	2H	12.86	14.36	13.26	14.70	15.08	12.86	14.36	13.26	14.70	15.08
	3H	15.11	16.38	15.52	16.77	17.17	15.11	16.38	15.52	16.77	17.17
	4H	16.06	17.22	16.49	17.63	18.06	16.06	17.22	16.49	17.63	18.06
	6H	16.89	17.91	17.34	18.35	18.80	16.89	17.91	17.34	18.35	18.80
	8H	17.23	18.18	17.68	18.62	19.08	17.23	18.18	17.68	18.62	19.08
	12H	17.52	18.39	18.00	18.86	19.33	17.52	18.39	18.00	18.86	19.33
8H	4H	16.46	17.41	16.92	17.85	18.31	16.46	17.41	16.92	17.85	18.31
	6H	17.45	18.25	17.94	18.73	19.20	17.45	18.25	17.94	18.73	19.20
	8H	17.89	18.61	18.39	19.11	19.59	17.89	18.61	18.39	19.11	19.59
	12H	18.30	18.94	18.80	19.43	19.98	18.30	18.94	18.80	19.43	19.98
12H	4H	16.52	17.39	17.00	17.86	18.32	16.52	17.39	17.00	17.86	18.32
	6H	17.55	18.27	18.05	18.77	19.26	17.55	18.27	18.05	18.77	19.26
	8H	18.06	18.70	18.57	19.19	19.75	18.06	18.70	18.57	19.19	19.75