

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: P865942

Luminaire Tested: PRLX-2001-M-927-65L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865942
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-927-65L-G-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

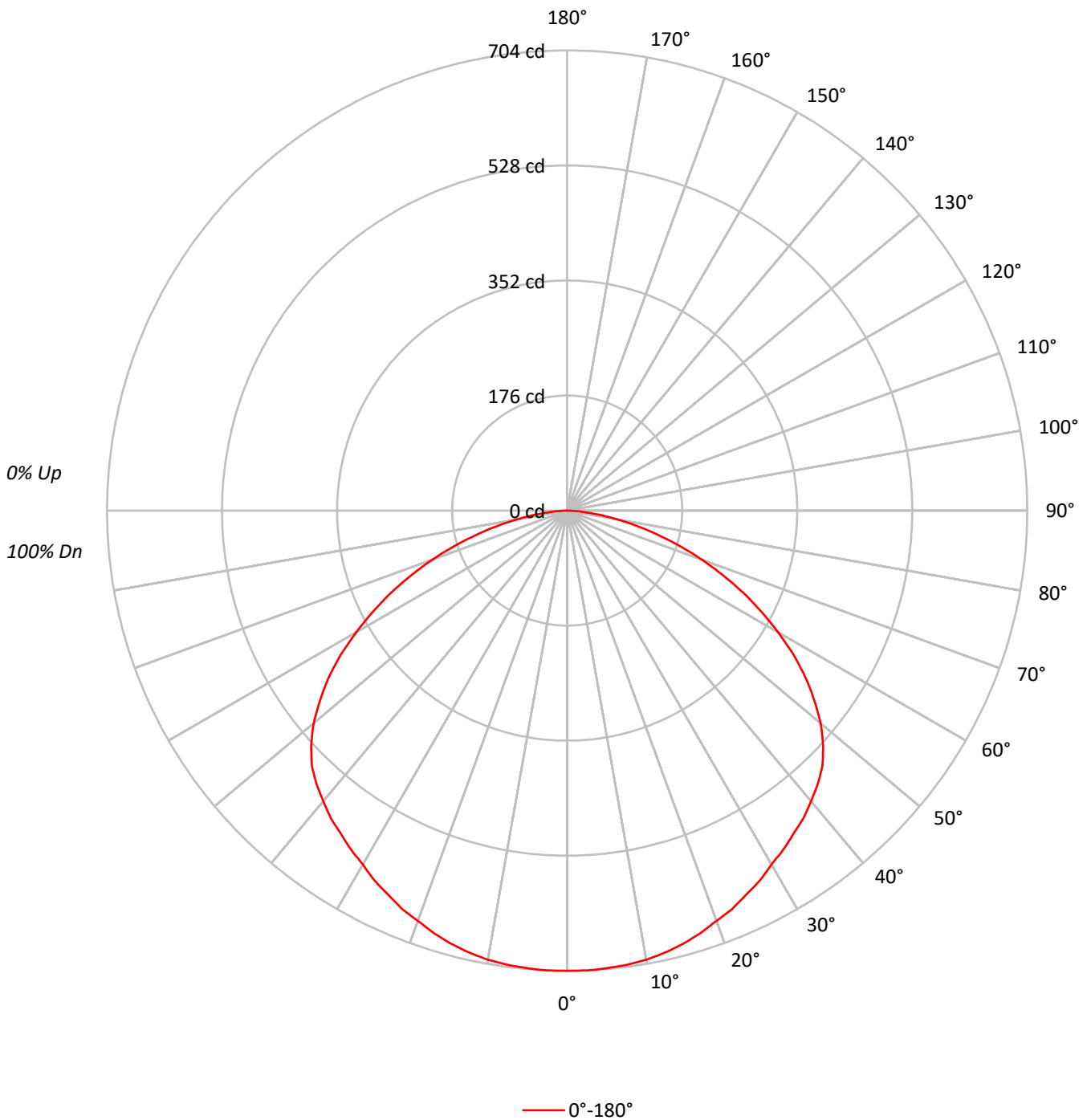
Lumens per Lamp: N/A
Luminaire Lumens: 2239.6 lumens
Efficiency: N/A
Efficacy: 38.2 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 58.6
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: 0.5 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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	69	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5976
5°	5985
10°	6011
15°	6028
20°	6032
25°	6069
30°	6125
35°	6253
40°	6431
45°	6631
50°	6684
55°	6588
60°	6325
65°	5962
70°	5441
75°	4705
80°	3787
85°	2570

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 6684 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.9	3.0
10°-20°	193.7	8.6
20°-30°	299.4	13.4
30°-40°	378.8	16.9
40°-50°	424.1	18.9
50°-60°	396.3	17.7
60°-70°	293.1	13.1
70°-80°	153.9	6.9
80°-90°	33.4	1.5
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°	560.1	25.0
0°-40°	938.8	41.9
0°-60°	1759.2	78.6
0°-90°	2239.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2239.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	704	
5°	703	67
15°	686	194
25°	648	299
35°	604	379
45°	552	424
55°	445	396
65°	297	293
75°	144	154
85°	26	33
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	704.2
2.5°	704.2
5°	702.6
7.5°	700.9
10°	697.6
12.5°	692.7
15°	686.1
17.5°	677.8
20°	667.9
22.5°	659.7
25°	648.2
27.5°	638.3
30°	625.1
32.5°	615.2
35°	603.6
37.5°	593.7
40°	580.5
42.5°	567.3
45°	552.5
47.5°	531.1
50°	506.3
52.5°	476.6
55°	445.3
57.5°	410.7
60°	372.7
62.5°	334.8
65°	296.9
67.5°	257.3
70°	219.3
72.5°	181.4
75°	143.5
77.5°	110.5
80°	77.5
82.5°	49.5
85°	26.4
87.5°	8.2
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	18.98	20.65	19.34	20.97	21.28	18.98	20.65	19.34	20.97	21.28
	3H	20.64	22.15	21.02	22.48	22.84	20.64	22.15	21.02	22.48	22.84
	4H	21.20	22.63	21.60	22.97	23.35	21.20	22.63	21.60	22.97	23.35
	6H	21.56	22.88	21.97	23.25	23.64	21.56	22.88	21.97	23.25	23.64
	8H	21.65	22.91	22.08	23.30	23.70	21.65	22.91	22.08	23.30	23.70
	12H	21.70	22.91	22.13	23.29	23.72	21.70	22.91	22.13	23.29	23.72
4H	2H	19.59	21.01	19.99	21.36	21.73	19.59	21.01	19.99	21.36	21.73
	3H	21.46	22.65	21.86	23.05	23.45	21.46	22.65	21.86	23.05	23.45
	4H	22.13	23.21	22.56	23.62	24.05	22.13	23.21	22.56	23.62	24.05
	6H	22.60	23.54	23.05	23.98	24.43	22.60	23.54	23.05	23.98	24.43
	8H	22.72	23.60	23.18	24.04	24.50	22.72	23.60	23.18	24.04	24.50
	12H	22.79	23.58	23.27	24.06	24.52	22.79	23.58	23.27	24.06	24.52
8H	4H	22.39	23.27	22.85	23.71	24.18	22.39	23.27	22.85	23.71	24.18
	6H	22.94	23.68	23.44	24.16	24.64	22.94	23.68	23.44	24.16	24.64
	8H	23.11	23.77	23.62	24.28	24.76	23.11	23.77	23.62	24.28	24.76
	12H	23.23	23.81	23.73	24.30	24.86	23.23	23.81	23.73	24.30	24.86
12H	4H	22.41	23.20	22.89	23.68	24.14	22.41	23.20	22.89	23.68	24.14
	6H	22.97	23.63	23.48	24.14	24.62	22.97	23.63	23.48	24.14	24.62
	8H	23.19	23.77	23.69	24.26	24.82	23.19	23.77	23.69	24.26	24.82