

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: P865941

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865941
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-35)
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-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

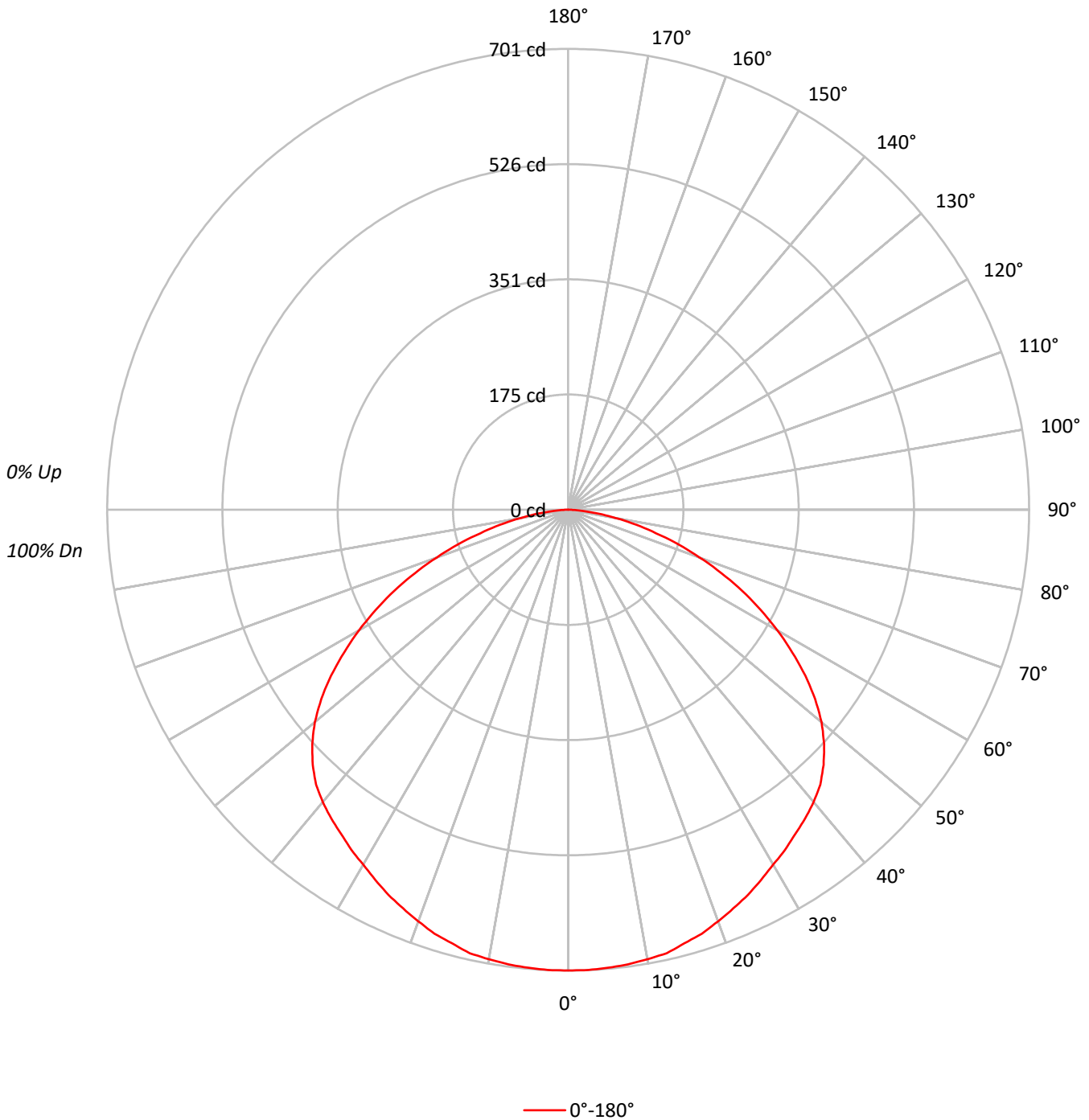
Lumens per Lamp: N/A
Luminaire Lumens: 2217.6 lumens
Efficiency: N/A
Efficacy: 37.8 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P865941

CATALOG NUMBER: PRLX-2001-M-927-65L-G-U-S-X-X-BRSS-X

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	94	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	79	75	72	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	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	56	46	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5948
5°	5957
10°	5983
15°	5999
20°	6017
25°	6053
30°	6109
35°	6236
40°	6431
45°	6591
50°	6641
55°	6514
60°	6242
65°	5861
70°	5280
75°	4541
80°	3626
85°	2249

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 6641 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.6	3.0
10°-20°	193.1	8.7
20°-30°	298.3	13.5
30°-40°	377.9	17.0
40°-50°	422.4	19.0
50°-60°	392.0	17.7
60°-70°	287.9	13.0
70°-80°	148.6	6.7
80°-90°	30.7	1.4
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°	558.0	25.2
0°-40°	935.9	42.2
0°-60°	1750.3	78.9
0°-90°	2217.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2217.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	701	
5°	699	67
15°	683	193
25°	646	298
35°	602	378
45°	549	422
55°	440	392
65°	292	288
75°	138	149
85°	23	31
90°	0	

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CATALOG NUMBER: PRLX-2001-M-927-65L-G-U-S-X-X-BRSS-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	700.9
2.5°	700.9
5°	699.3
7.5°	697.6
10°	694.3
12.5°	691.0
15°	682.8
17.5°	676.2
20°	666.3
22.5°	656.4
25°	646.5
27.5°	635.0
30°	623.4
32.5°	613.5
35°	602.0
37.5°	592.1
40°	580.5
42.5°	567.3
45°	549.2
47.5°	527.8
50°	503.0
52.5°	473.3
55°	440.3
57.5°	404.1
60°	367.8
62.5°	329.8
65°	291.9
67.5°	252.3
70°	212.8
72.5°	176.5
75°	138.5
77.5°	105.6
80°	74.2
82.5°	46.2
85°	23.1
87.5°	6.6
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	18.91	20.58	19.27	20.89	21.20	18.91	20.58	19.27	20.89	21.20
	3H	20.55	22.06	20.92	22.38	22.74	20.55	22.06	20.92	22.38	22.74
	4H	21.09	22.51	21.49	22.86	23.24	21.09	22.51	21.49	22.86	23.24
	6H	21.44	22.75	21.85	23.12	23.51	21.44	22.75	21.85	23.12	23.51
	8H	21.52	22.78	21.94	23.16	23.56	21.52	22.78	21.94	23.16	23.56
	12H	21.55	22.76	21.98	23.14	23.57	21.55	22.76	21.98	23.14	23.57
4H	2H	19.52	20.94	19.91	21.28	21.66	19.52	20.94	19.91	21.28	21.66
	3H	21.36	22.54	21.77	22.94	23.34	21.36	22.54	21.77	22.94	23.34
	4H	22.01	23.08	22.44	23.50	23.93	22.01	23.08	22.44	23.50	23.93
	6H	22.46	23.39	22.91	23.83	24.29	22.46	23.39	22.91	23.83	24.29
	8H	22.57	23.44	23.03	23.89	24.35	22.57	23.44	23.03	23.89	24.35
	12H	22.63	23.41	23.11	23.89	24.36	22.63	23.41	23.11	23.89	24.36
8H	4H	22.26	23.14	22.72	23.58	24.04	22.26	23.14	22.72	23.58	24.04
	6H	22.79	23.52	23.29	24.01	24.48	22.79	23.52	23.29	24.01	24.48
	8H	22.95	23.60	23.46	24.11	24.59	22.95	23.60	23.46	24.11	24.59
	12H	23.05	23.62	23.55	24.11	24.67	23.05	23.62	23.55	24.11	24.67
12H	4H	22.28	23.07	22.76	23.54	24.01	22.28	23.07	22.76	23.54	24.01
	6H	22.82	23.47	23.33	23.98	24.46	22.82	23.47	23.33	23.98	24.46
	8H	23.02	23.59	23.52	24.08	24.64	23.02	23.59	23.52	24.08	24.64