

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: P865597

Luminaire Tested: PRLX-2002-S-927-20L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865597
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-S-927-20L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

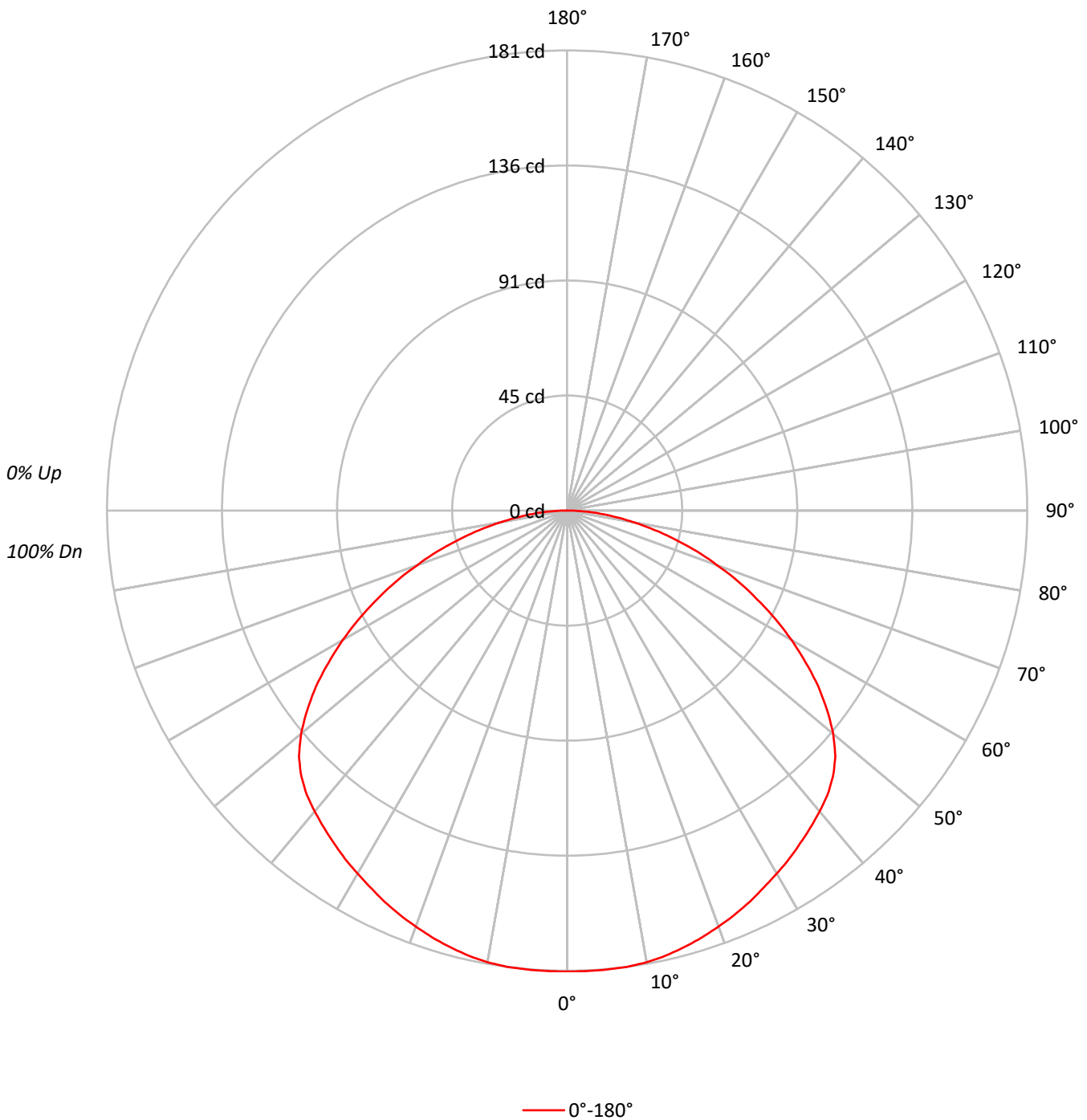
Lumens per Lamp: N/A
Luminaire Lumens: 609.5 lumens
Efficiency: N/A
Efficacy: 28.0 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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

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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	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		77	74	70	68
3	89	78	69	63	86	76	68	62	73	66	61		70	65	60		68	63	59	56
4	81	69	59	52	79	67	59	52	65	57	51		62	56	51		60	54	50	48
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33		45	38	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		41	35	29		40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27		38	31	26		37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24		35	29	24		34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3406
5°	3417
10°	3441
15°	3458
20°	3480
25°	3519
30°	3577
35°	3664
40°	3789
45°	3929
50°	3992
55°	3950
60°	3832
65°	3662
70°	3449
75°	3201
80°	2888
85°	2586

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 3992 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.3	2.8
10°-20°	50.3	8.2
20°-30°	78.4	12.9
30°-40°	100.3	16.4
40°-50°	113.7	18.7
50°-60°	107.4	17.6
60°-70°	81.6	13.4
70°-80°	46.9	7.7
80°-90°	13.8	2.3
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°	145.9	23.9
0°-40°	246.2	40.4
0°-60°	467.3	76.7
0°-90°	609.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	609.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	181	
5°	181	17
15°	178	50
25°	170	78
35°	160	100
45°	148	114
55°	121	107
65°	82	82
75°	44	47
85°	12	14
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	181.3
2.5°	181.3
5°	181.2
7.5°	181.0
10°	180.4
12.5°	179.3
15°	177.8
17.5°	176.1
20°	174.1
22.5°	172.1
25°	169.8
27.5°	167.3
30°	164.9
32.5°	162.5
35°	159.8
37.5°	157.2
40°	154.5
42.5°	151.6
45°	147.9
47.5°	143.1
50°	136.6
52.5°	128.9
55°	120.6
57.5°	111.3
60°	102.0
62.5°	92.3
65°	82.4
67.5°	72.8
70°	62.8
72.5°	53.6
75°	44.1
77.5°	35.3
80°	26.7
82.5°	19.0
85°	12.0
87.5°	6.2
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	17.16	18.86	17.53	19.17	19.49	17.16	18.86	17.53	19.17	19.49
	3H	18.96	20.50	19.34	20.82	21.18	18.96	20.50	19.34	20.82	21.18
	4H	19.63	21.08	20.03	21.43	21.80	19.63	21.08	20.03	21.43	21.80
	6H	20.13	21.48	20.54	21.84	22.23	20.13	21.48	20.54	21.84	22.23
	8H	20.30	21.59	20.72	21.97	22.37	20.30	21.59	20.72	21.97	22.37
	12H	20.42	21.65	20.85	22.03	22.46	20.42	21.65	20.85	22.03	22.46
4H	2H	17.80	19.25	18.20	19.60	19.97	17.80	19.25	18.20	19.60	19.97
	3H	19.82	21.04	20.23	21.44	21.84	19.82	21.04	20.23	21.44	21.84
	4H	20.62	21.73	21.05	22.14	22.57	20.62	21.73	21.05	22.14	22.57
	6H	21.25	22.22	21.70	22.66	23.11	21.25	22.22	21.70	22.66	23.11
	8H	21.47	22.38	21.93	22.82	23.28	21.47	22.38	21.93	22.82	23.28
	12H	21.64	22.45	22.11	22.93	23.40	21.64	22.45	22.11	22.93	23.40
8H	4H	20.94	21.85	21.40	22.29	22.76	20.94	21.85	21.40	22.29	22.76
	6H	21.70	22.46	22.19	22.94	23.42	21.70	22.46	22.19	22.94	23.42
	8H	21.99	22.67	22.50	23.17	23.66	21.99	22.67	22.50	23.17	23.66
	12H	22.24	22.84	22.74	23.33	23.89	22.24	22.84	22.74	23.33	23.89
12H	4H	20.98	21.80	21.46	22.28	22.74	20.98	21.80	21.46	22.28	22.74
	6H	21.76	22.44	22.27	22.95	23.43	21.76	22.44	22.27	22.95	23.43
	8H	22.11	22.72	22.62	23.20	23.76	22.11	22.72	22.62	23.20	23.76