

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: P865641

Luminaire Tested: PRLX-2002-S-930-20L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865641
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-S-930-20L-L-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

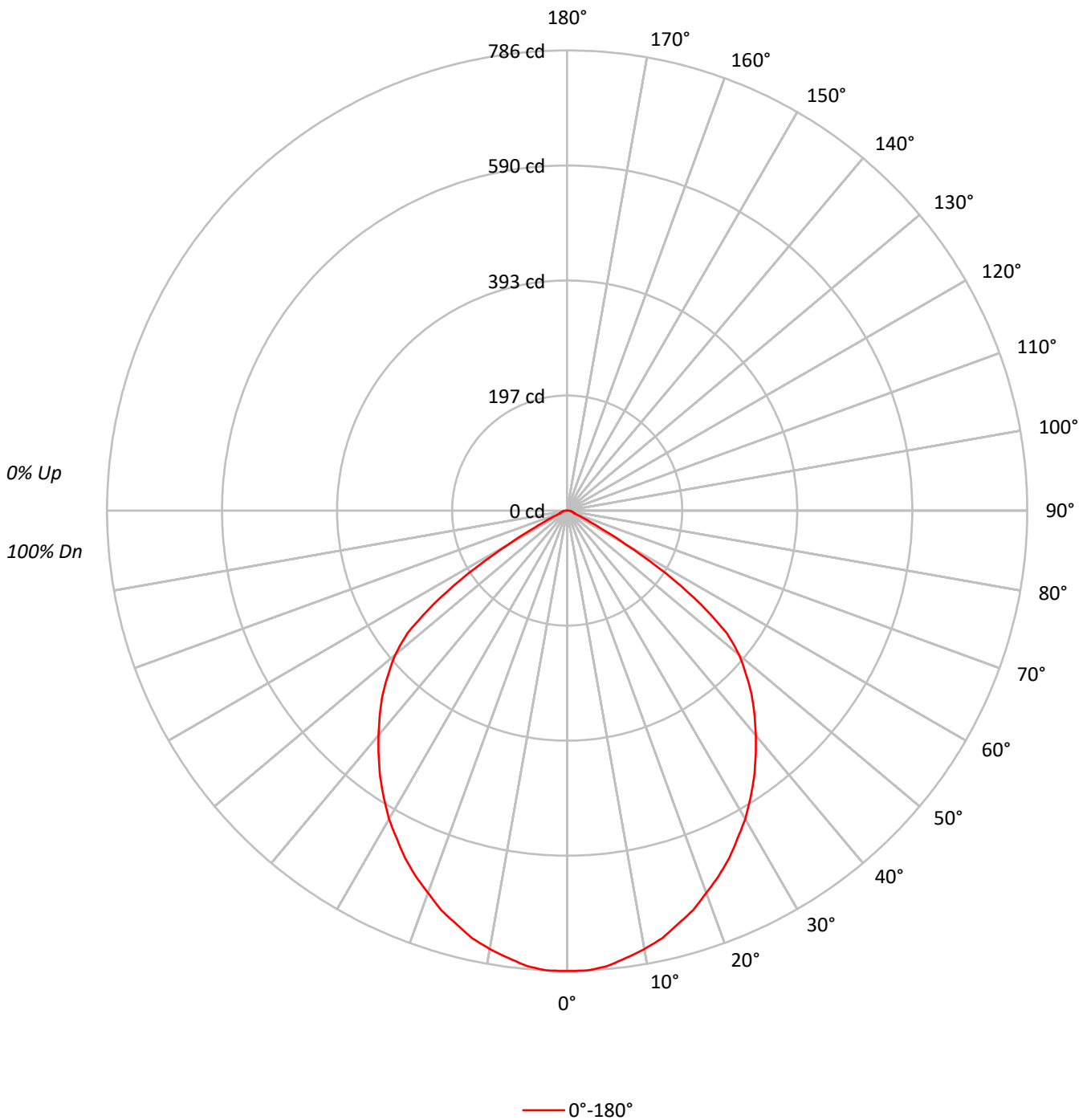
Lumens per Lamp: N/A
Luminaire Lumens: 1566.7 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71
4	89	79	71	66	87	77	70	65	75	69	64	73	68	63	71	66	63
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	65	60	56
6	76	65	57	51	75	64	56	51	62	55	50	60	55	50	59	54	50
7	71	59	51	46	70	58	51	46	57	50	45	55	49	45	54	49	45
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	37	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	14772
5°	14730
10°	14506
15°	14218
20°	13889
25°	13576
30°	13196
35°	12761
40°	12290
45°	11845
50°	11213
55°	9114
60°	4350
65°	1382
70°	665
75°	755
80°	746
85°	1121

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11845 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	4.7
10°-20°	206.2	13.2
20°-30°	301.2	19.2
30°-40°	347.7	22.2
40°-50°	342.8	21.9
50°-60°	238.2	15.2
60°-70°	41.4	2.6
70°-80°	10.7	0.7
80°-90°	4.7	0.3
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°	581.2	37.1
0°-40°	929.0	59.3
0°-60°	1509.9	96.4
0°-90°	1566.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1566.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	786	
5°	781	74
15°	731	206
25°	655	301
35°	556	348
45°	446	343
55°	278	238
65°	31	41
75°	10	11
85°	5	5
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	786.4
2.5°	786.4
5°	781.2
7.5°	770.8
10°	760.5
12.5°	748.4
15°	731.1
17.5°	715.5
20°	694.8
22.5°	675.8
25°	655.0
27.5°	630.8
30°	608.4
32.5°	582.4
35°	556.5
37.5°	528.9
40°	501.2
42.5°	473.6
45°	445.9
47.5°	414.8
50°	383.7
52.5°	343.9
55°	278.3
57.5°	200.5
60°	115.8
62.5°	60.5
65°	31.1
67.5°	13.8
70°	12.1
72.5°	12.1
75°	10.4
77.5°	8.6
80°	6.9
82.5°	6.9
85°	5.2
87.5°	1.7
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	18.15	19.57	18.51	19.88	20.19	18.15	19.57	18.51	19.88	20.19
	3H	18.05	19.30	18.43	19.63	20.00	18.05	19.30	18.43	19.63	20.00
	4H	18.01	19.17	18.41	19.52	19.91	18.01	19.17	18.41	19.52	19.91
	6H	17.96	19.03	18.38	19.40	19.79	17.96	19.03	18.38	19.40	19.79
	8H	17.94	18.95	18.37	19.34	19.75	17.94	18.95	18.37	19.34	19.75
	12H	17.92	18.89	18.35	19.27	19.70	17.92	18.89	18.35	19.27	19.70
4H	2H	18.01	19.17	18.41	19.52	19.90	18.01	19.17	18.41	19.52	19.90
	3H	17.93	18.87	18.34	19.27	19.68	17.93	18.87	18.34	19.27	19.68
	4H	17.89	18.72	18.32	19.14	19.58	17.89	18.72	18.32	19.14	19.58
	6H	17.86	18.58	18.32	19.02	19.49	17.86	18.58	18.32	19.02	19.49
	8H	17.83	18.51	18.30	18.95	19.42	17.83	18.51	18.30	18.95	19.42
	12H	17.83	18.42	18.31	18.91	19.38	17.83	18.42	18.31	18.91	19.38
8H	4H	17.78	18.45	18.25	18.90	19.37	17.78	18.45	18.25	18.90	19.37
	6H	17.74	18.30	18.24	18.79	19.27	17.74	18.30	18.24	18.79	19.27
	8H	17.73	18.23	18.24	18.74	19.23	17.73	18.23	18.24	18.74	19.23
	12H	17.74	18.19	18.25	18.69	19.26	17.74	18.19	18.25	18.69	19.26
12H	4H	17.74	18.34	18.23	18.82	19.29	17.74	18.34	18.23	18.82	19.29
	6H	17.69	18.19	18.21	18.71	19.20	17.69	18.19	18.21	18.71	19.20
	8H	17.70	18.15	18.21	18.65	19.21	17.70	18.15	18.21	18.65	19.21