

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: P865477

Luminaire Tested: PRLX-2001-S-930-20L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865477
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-930-20L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

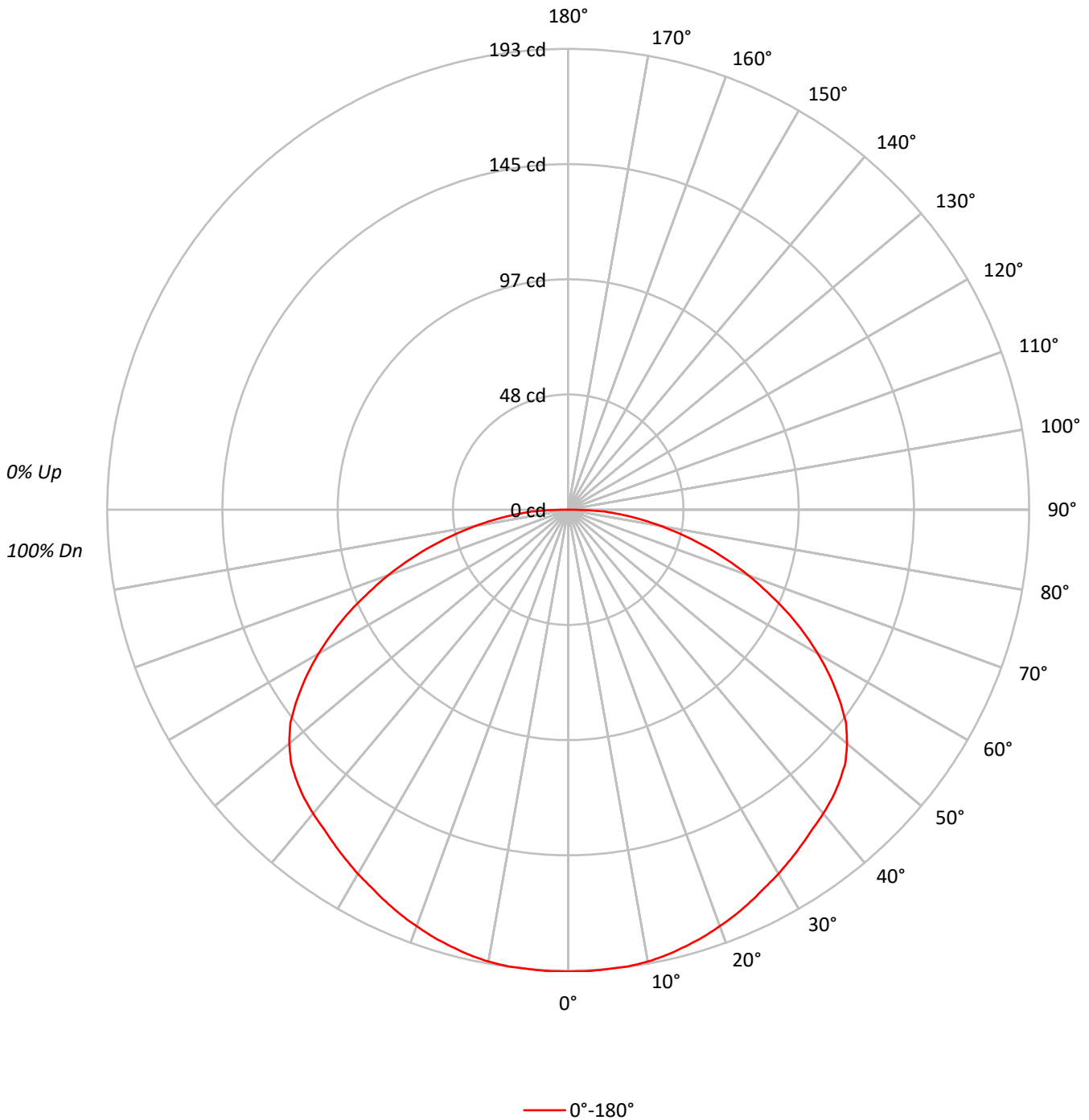
Lumens per Lamp: N/A
Luminaire Lumens: 696.0 lumens
Efficiency: N/A
Efficacy: 31.9 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.55
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P865477

CATALOG NUMBER: PRLX-2001-S-930-20L-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	107	102	97	93	105	100	95	91	95	92	89	91	89	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	72	64	59	69	63	58	66	61	57	54
4	80	67	57	50	77	66	57	50	63	55	49	61	54	48	58	53	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	41	36	33
7	62	48	39	32	60	47	38	32	45	38	32	44	37	31	43	36	31	29
8	58	43	35	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	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3154
5°	3162
10°	3183
15°	3198
20°	3221
25°	3257
30°	3317
35°	3403
40°	3536
45°	3707
50°	3867
55°	3941
60°	3941
65°	3894
70°	3825
75°	3737
80°	3701
85°	4042

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 5160 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.4	2.6
10°-20°	53.6	7.7
20°-30°	83.6	12.0
30°-40°	107.3	15.4
40°-50°	124.0	17.8
50°-60°	123.5	17.7
60°-70°	99.6	14.3
70°-80°	62.8	9.0
80°-90°	23.2	3.3
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°	155.6	22.4
0°-40°	262.8	37.8
0°-60°	510.3	73.3
0°-90°	696.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	696.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	193	
5°	193	18
15°	189	54
25°	181	84
35°	171	107
45°	161	124
55°	139	123
65°	101	100
75°	59	63
85°	22	23
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	193.4
2.5°	193.4
5°	193.1
7.5°	192.9
10°	192.2
12.5°	191.0
15°	189.4
17.5°	187.7
20°	185.6
22.5°	183.5
25°	181.0
27.5°	178.4
30°	176.1
32.5°	173.5
35°	170.9
37.5°	168.3
40°	166.1
42.5°	163.7
45°	160.7
47.5°	157.3
50°	152.4
52.5°	146.6
55°	138.6
57.5°	130.0
60°	120.8
62.5°	111.0
65°	100.9
67.5°	90.2
70°	80.2
72.5°	69.8
75°	59.3
77.5°	49.3
80°	39.4
82.5°	30.1
85°	21.6
87.5°	13.8
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	17.25	18.98	17.61	19.30	19.61	17.25	18.98	17.61	19.30	19.61
	3H	19.26	20.84	19.63	21.16	21.52	19.26	20.84	19.63	21.16	21.52
	4H	20.07	21.56	20.47	21.91	22.28	20.07	21.56	20.47	21.91	22.28
	6H	20.74	22.13	21.15	22.49	22.88	20.74	22.13	21.15	22.49	22.88
	8H	21.00	22.33	21.42	22.72	23.12	21.00	22.33	21.42	22.72	23.12
	12H	21.23	22.50	21.66	22.89	23.31	21.23	22.50	21.66	22.89	23.31
4H	2H	17.95	19.45	18.35	19.79	20.17	17.95	19.45	18.35	19.79	20.17
	3H	20.19	21.46	20.60	21.85	22.25	20.19	21.46	20.60	21.85	22.25
	4H	21.15	22.30	21.58	22.71	23.14	21.15	22.30	21.58	22.71	23.14
	6H	21.97	22.98	22.42	23.42	23.87	21.97	22.98	22.42	23.42	23.87
	8H	22.30	23.25	22.75	23.69	24.15	22.30	23.25	22.75	23.69	24.15
	12H	22.59	23.45	23.07	23.93	24.39	22.59	23.45	23.07	23.93	24.39
8H	4H	21.54	22.49	22.00	22.93	23.40	21.54	22.49	22.00	22.93	23.40
	6H	22.52	23.32	23.01	23.80	24.28	22.52	23.32	23.01	23.80	24.28
	8H	22.95	23.67	23.46	24.17	24.65	22.95	23.67	23.46	24.17	24.65
	12H	23.37	24.00	23.87	24.49	25.05	23.37	24.00	23.87	24.49	25.05
12H	4H	21.61	22.47	22.08	22.94	23.41	21.61	22.47	22.08	22.94	23.41
	6H	22.62	23.34	23.12	23.84	24.32	22.62	23.34	23.12	23.84	24.32
	8H	23.13	23.77	23.63	24.26	24.81	23.13	23.77	23.63	24.26	24.81