

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: P866485

Luminaire Tested: PRLX-2004-M-930-25L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866485
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-43)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2004-M-930-25L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
BELL WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

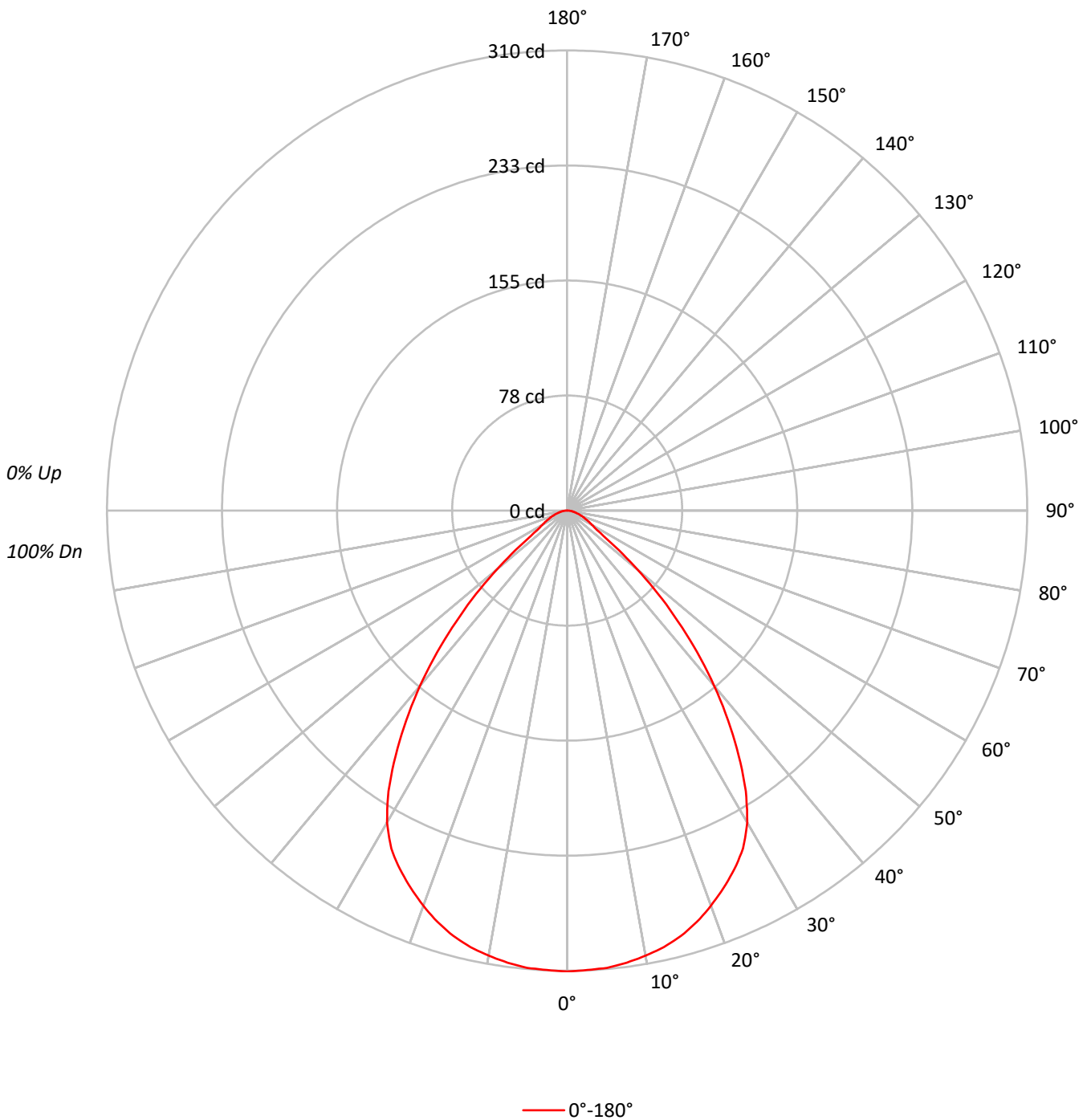
Lumens per Lamp: N/A
Luminaire Lumens: 495.7 lumens
Efficiency: N/A
Efficacy: 22.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.14
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 21.7
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: P866485

CATALOG NUMBER: PRLX-2004-M-930-25L-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	112	108	105	103	109	106	103	101	102	100	98		98	97	95		95	93	92	90
2	105	99	94	89	102	97	92	88	93	90	86		90	87	84		88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77		83	79	75		81	77	74	72
4	91	82	75	70	89	81	74	70	79	73	69		76	72	68		74	70	67	65
5	85	75	68	63	84	74	67	62	72	66	62		70	65	61		69	64	61	59
6	80	69	62	57	78	68	61	56	67	61	56		65	60	56		64	59	55	53
7	75	64	57	52	74	63	56	51	62	56	51		60	55	51		59	54	50	49
8	71	59	52	47	69	59	52	47	57	51	47		56	51	46		55	50	46	45
9	66	55	48	43	65	54	48	43	53	47	43		52	47	43		51	46	43	41
10	63	51	44	40	62	51	44	40	50	44	40		49	43	39		48	43	39	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2470
5°	2469
10°	2460
15°	2443
20°	2399
25°	2340
30°	2230
35°	1957
40°	1602
45°	1189
50°	765
55°	415
60°	307
65°	264
70°	233
75°	203
80°	183
85°	183

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1189 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.4	5.9
10°-20°	83.5	16.8
20°-30°	122.3	24.7
30°-40°	124.9	25.2
40°-50°	81.6	16.5
50°-60°	30.3	6.1
60°-70°	14.1	2.9
70°-80°	7.2	1.5
80°-90°	2.3	0.5
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°	235.1	47.4
0°-40°	360.1	72.6
0°-60°	472.0	95.2
0°-90°	495.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	495.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	310	
5°	309	29
15°	297	83
25°	267	122
35°	202	125
45°	106	82
55°	30	30
65°	14	14
75°	7	7
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	310.5
2.5°	309.8
5°	309.2
7.5°	307.2
10°	304.5
12.5°	301.2
15°	296.6
17.5°	290.6
20°	283.3
22.5°	275.3
25°	266.6
27.5°	256.7
30°	242.7
32.5°	224.1
35°	201.5
37.5°	178.2
40°	154.3
42.5°	129.7
45°	105.7
47.5°	83.1
50°	61.8
52.5°	43.9
55°	29.9
57.5°	22.6
60°	19.3
62.5°	16.6
65°	14.0
67.5°	12.0
70°	10.0
72.5°	8.6
75°	6.6
77.5°	5.3
80°	4.0
82.5°	3.3
85°	2.0
87.5°	1.3
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	4.34	5.60	4.71	5.92	6.23	4.34	5.60	4.71	5.92	6.23
	3H	5.54	6.66	5.92	6.99	7.35	5.54	6.66	5.92	6.99	7.35
	4H	5.98	7.01	6.38	7.36	7.75	5.98	7.01	6.38	7.36	7.75
	6H	6.28	7.23	6.70	7.60	8.00	6.28	7.23	6.70	7.60	8.00
	8H	6.41	7.31	6.84	7.70	8.10	6.41	7.31	6.84	7.70	8.10
	12H	6.50	7.35	6.93	7.74	8.17	6.50	7.35	6.93	7.74	8.17
4H	2H	4.71	5.75	5.12	6.10	6.48	4.71	5.75	5.12	6.10	6.48
	3H	6.13	6.98	6.55	7.38	7.78	6.13	6.98	6.55	7.38	7.78
	4H	6.67	7.42	7.10	7.84	8.28	6.67	7.42	7.10	7.84	8.28
	6H	7.09	7.74	7.56	8.19	8.65	7.09	7.74	7.56	8.19	8.65
	8H	7.27	7.87	7.74	8.32	8.79	7.27	7.87	7.74	8.32	8.79
	12H	7.40	7.93	7.89	8.42	8.89	7.40	7.93	7.89	8.42	8.89
8H	4H	6.83	7.43	7.30	7.88	8.35	6.83	7.43	7.30	7.88	8.35
	6H	7.36	7.86	7.87	8.35	8.84	7.36	7.86	7.87	8.35	8.84
	8H	7.62	8.07	8.15	8.58	9.08	7.62	8.07	8.15	8.58	9.08
	12H	7.84	8.24	8.36	8.73	9.30	7.84	8.24	8.36	8.73	9.30
12H	4H	6.83	7.36	7.31	7.84	8.32	6.83	7.36	7.31	7.84	8.32
	6H	7.39	7.83	7.91	8.35	8.84	7.39	7.83	7.91	8.35	8.84
	8H	7.71	8.10	8.23	8.60	9.17	7.71	8.10	8.23	8.60	9.17