

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: P866549

Luminaire Tested: PRLX-2004-M-935-25L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866549
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: Prenalux
Catalog Number: PRLX-2004-M-935-25L-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

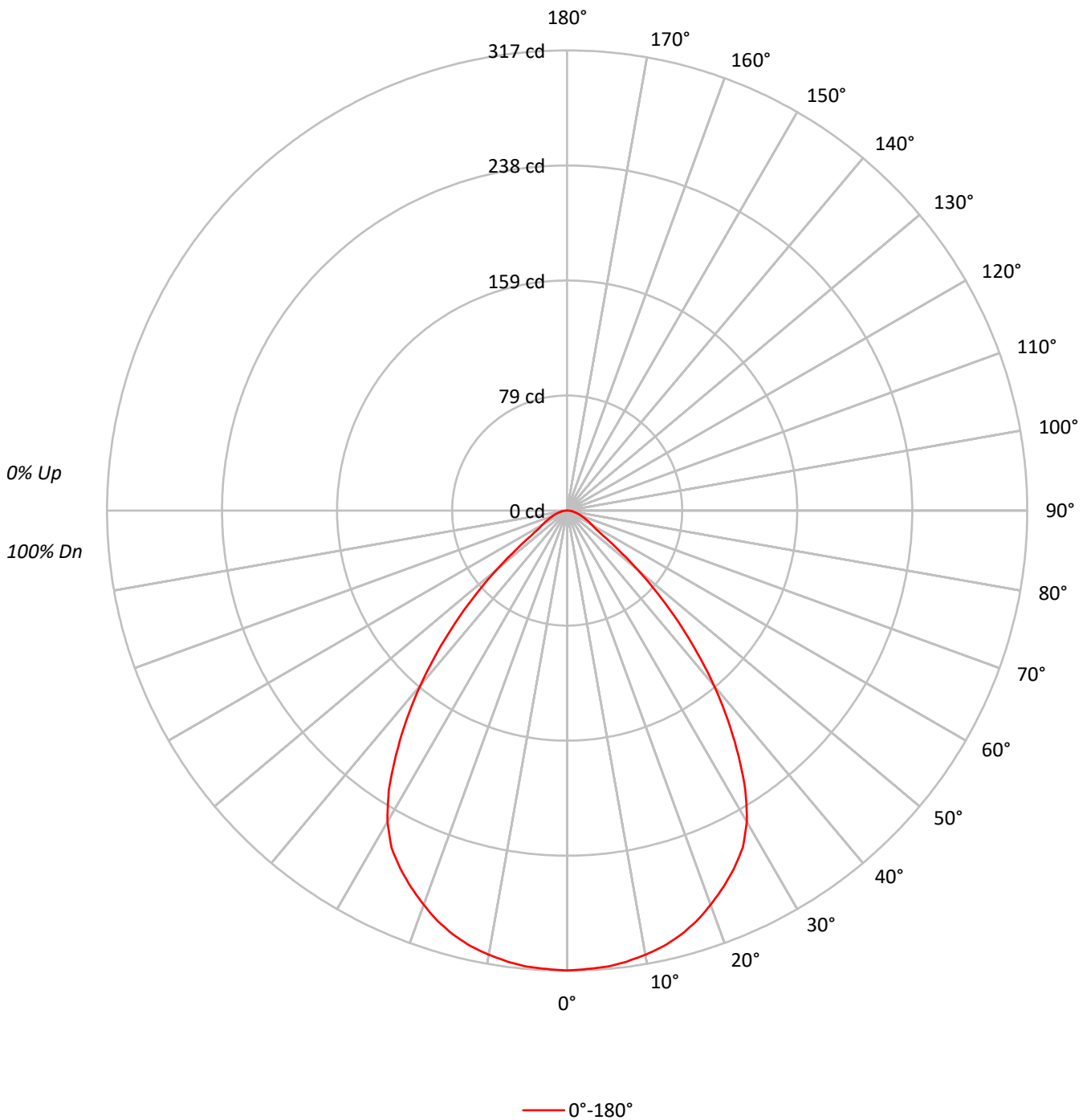
Lumens per Lamp: N/A
Luminaire Lumens: 505.8 lumens
Efficiency: N/A
Efficacy: 23.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.14
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

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

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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	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°	2520
5°	2519
10°	2510
15°	2492
20°	2447
25°	2388
30°	2275
35°	1997
40°	1635
45°	1214
50°	781
55°	423
60°	313
65°	267
70°	237
75°	209
80°	188
85°	183

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1214 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.9	5.9
10°-20°	85.2	16.8
20°-30°	124.8	24.7
30°-40°	127.4	25.2
40°-50°	83.3	16.5
50°-60°	31.0	6.1
60°-70°	14.4	2.9
70°-80°	7.4	1.5
80°-90°	2.4	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°	239.9	47.4
0°-40°	367.3	72.6
0°-60°	481.6	95.2
0°-90°	505.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	505.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	317	
5°	315	30
15°	303	85
25°	272	125
35°	206	127
45°	108	83
55°	30	31
65°	14	14
75°	7	7
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	316.8
2.5°	316.1
5°	315.4
7.5°	313.4
10°	310.7
12.5°	307.3
15°	302.6
17.5°	296.5
20°	289.0
22.5°	280.9
25°	272.0
27.5°	261.9
30°	247.6
32.5°	228.6
35°	205.6
37.5°	181.8
40°	157.4
42.5°	132.3
45°	107.9
47.5°	84.8
50°	63.1
52.5°	44.8
55°	30.5
57.5°	23.1
60°	19.7
62.5°	17.0
65°	14.2
67.5°	12.2
70°	10.2
72.5°	8.8
75°	6.8
77.5°	5.4
80°	4.1
82.5°	3.4
85°	2.0
87.5°	1.4
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	4.43	5.68	4.79	6.00	6.31	4.43	5.68	4.79	6.00	6.31
	3H	5.62	6.73	6.00	7.06	7.42	5.62	6.73	6.00	7.06	7.42
	4H	6.06	7.09	6.46	7.44	7.82	6.06	7.09	6.46	7.44	7.82
	6H	6.36	7.31	6.78	7.68	8.08	6.36	7.31	6.78	7.68	8.08
	8H	6.49	7.39	6.92	7.78	8.18	6.49	7.39	6.92	7.78	8.18
	12H	6.58	7.43	7.01	7.82	8.25	6.58	7.43	7.01	7.82	8.25
4H	2H	4.79	5.82	5.19	6.17	6.56	4.79	5.82	5.19	6.17	6.56
	3H	6.20	7.04	6.62	7.45	7.85	6.20	7.04	6.62	7.45	7.85
	4H	6.75	7.50	7.18	7.92	8.36	6.75	7.50	7.18	7.92	8.36
	6H	7.17	7.82	7.63	8.26	8.73	7.17	7.82	7.63	8.26	8.73
	8H	7.35	7.95	7.82	8.40	8.87	7.35	7.95	7.82	8.40	8.87
	12H	7.48	8.01	7.97	8.50	8.97	7.48	8.01	7.97	8.50	8.97
8H	4H	6.91	7.51	7.38	7.96	8.43	6.91	7.51	7.38	7.96	8.43
	6H	7.44	7.94	7.95	8.43	8.92	7.44	7.94	7.95	8.43	8.92
	8H	7.71	8.15	8.23	8.67	9.16	7.71	8.15	8.23	8.67	9.16
	12H	7.92	8.32	8.44	8.81	9.38	7.92	8.32	8.44	8.81	9.38
12H	4H	6.91	7.44	7.39	7.92	8.40	6.91	7.44	7.39	7.92	8.40
	6H	7.47	7.91	7.99	8.43	8.92	7.47	7.91	7.99	8.43	8.92
	8H	7.79	8.19	8.31	8.68	9.25	7.79	8.19	8.31	8.68	9.25