

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: P866041

Luminaire Tested: PRLX-2001-M-935-25L-L-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-935-25L-L-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

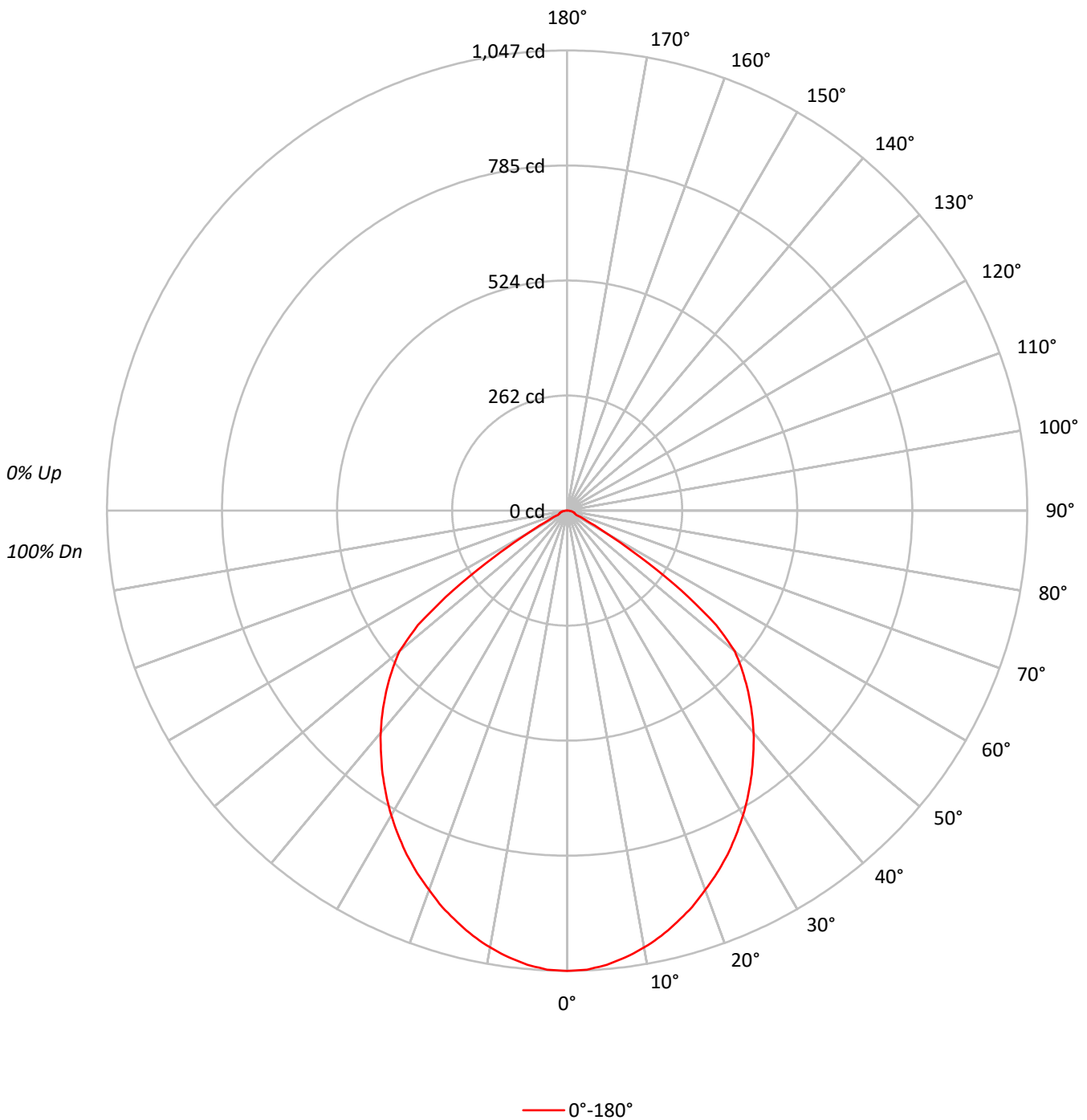
Lumens per Lamp: N/A
Luminaire Lumens: 2008.7 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

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: 0.333 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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55
6	77	65	58	52	75	65	57	52	63	56	51	61	56	51	60	55	51	49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	8888
5°	8836
10°	8698
15°	8510
20°	8295
25°	8086
30°	7844
35°	7583
40°	7312
45°	6986
50°	6573
55°	4697
60°	1750
65°	464
70°	454
75°	489
80°	533
85°	526

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6986 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.1	4.9
10°-20°	272.9	13.6
20°-30°	397.3	19.8
30°-40°	457.6	22.8
40°-50°	448.4	22.3
50°-60°	275.3	13.7
60°-70°	37.5	1.9
70°-80°	15.7	0.8
80°-90°	5.9	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°	768.4	38.3
0°-40°	1226.0	61.0
0°-60°	1949.7	97.1
0°-90°	2008.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2008.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1047	
5°	1037	98
15°	969	273
25°	864	397
35°	732	458
45°	582	448
55°	318	275
65°	23	37
75°	15	16
85°	5	6
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1047.4
2.5°	1045.4
5°	1037.3
7.5°	1025.0
10°	1009.4
12.5°	991.1
15°	968.7
17.5°	945.7
20°	918.5
22.5°	892.1
25°	863.6
27.5°	832.4
30°	800.5
32.5°	766.6
35°	732.0
37.5°	696.0
40°	660.1
42.5°	622.1
45°	582.1
47.5°	541.4
50°	497.9
52.5°	428.1
55°	317.5
57.5°	197.4
60°	103.1
62.5°	50.2
65°	23.1
67.5°	19.0
70°	18.3
72.5°	17.0
75°	14.9
77.5°	12.9
80°	10.9
82.5°	8.1
85°	5.4
87.5°	2.7
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	14.41	15.81	14.78	16.12	16.44	14.41	15.81	14.78	16.12	16.44
	3H	14.35	15.58	14.73	15.91	16.27	14.35	15.58	14.73	15.91	16.27
	4H	14.34	15.48	14.74	15.83	16.21	14.34	15.48	14.74	15.83	16.21
	6H	14.32	15.37	14.74	15.74	16.13	14.32	15.37	14.74	15.74	16.13
	8H	14.31	15.30	14.74	15.69	16.09	14.31	15.30	14.74	15.69	16.09
	12H	14.29	15.24	14.72	15.62	16.05	14.29	15.24	14.72	15.62	16.05
4H	2H	14.25	15.39	14.65	15.74	16.12	14.25	15.39	14.65	15.74	16.12
	3H	14.22	15.14	14.64	15.55	15.95	14.22	15.14	14.64	15.55	15.95
	4H	14.22	15.04	14.66	15.46	15.90	14.22	15.04	14.66	15.46	15.90
	6H	14.25	14.95	14.71	15.40	15.86	14.25	14.95	14.71	15.40	15.86
	8H	14.24	14.90	14.71	15.35	15.82	14.24	14.90	14.71	15.35	15.82
	12H	14.24	14.82	14.73	15.31	15.78	14.24	14.82	14.73	15.31	15.78
8H	4H	14.14	14.79	14.60	15.24	15.71	14.14	14.79	14.60	15.24	15.71
	6H	14.17	14.72	14.68	15.22	15.70	14.17	14.72	14.68	15.22	15.70
	8H	14.19	14.68	14.71	15.20	15.69	14.19	14.68	14.71	15.20	15.69
	12H	14.21	14.65	14.72	15.15	15.72	14.21	14.65	14.72	15.15	15.72
12H	4H	14.10	14.68	14.58	15.17	15.64	14.10	14.68	14.58	15.17	15.64
	6H	14.13	14.63	14.65	15.14	15.63	14.13	14.63	14.65	15.14	15.63
	8H	14.17	14.62	14.68	15.11	15.68	14.17	14.62	14.68	15.11	15.68