

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: P866681

Luminaire Tested: PRLX-2001-L-927-133L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866681
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-65)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2001-L-927-133L-G-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

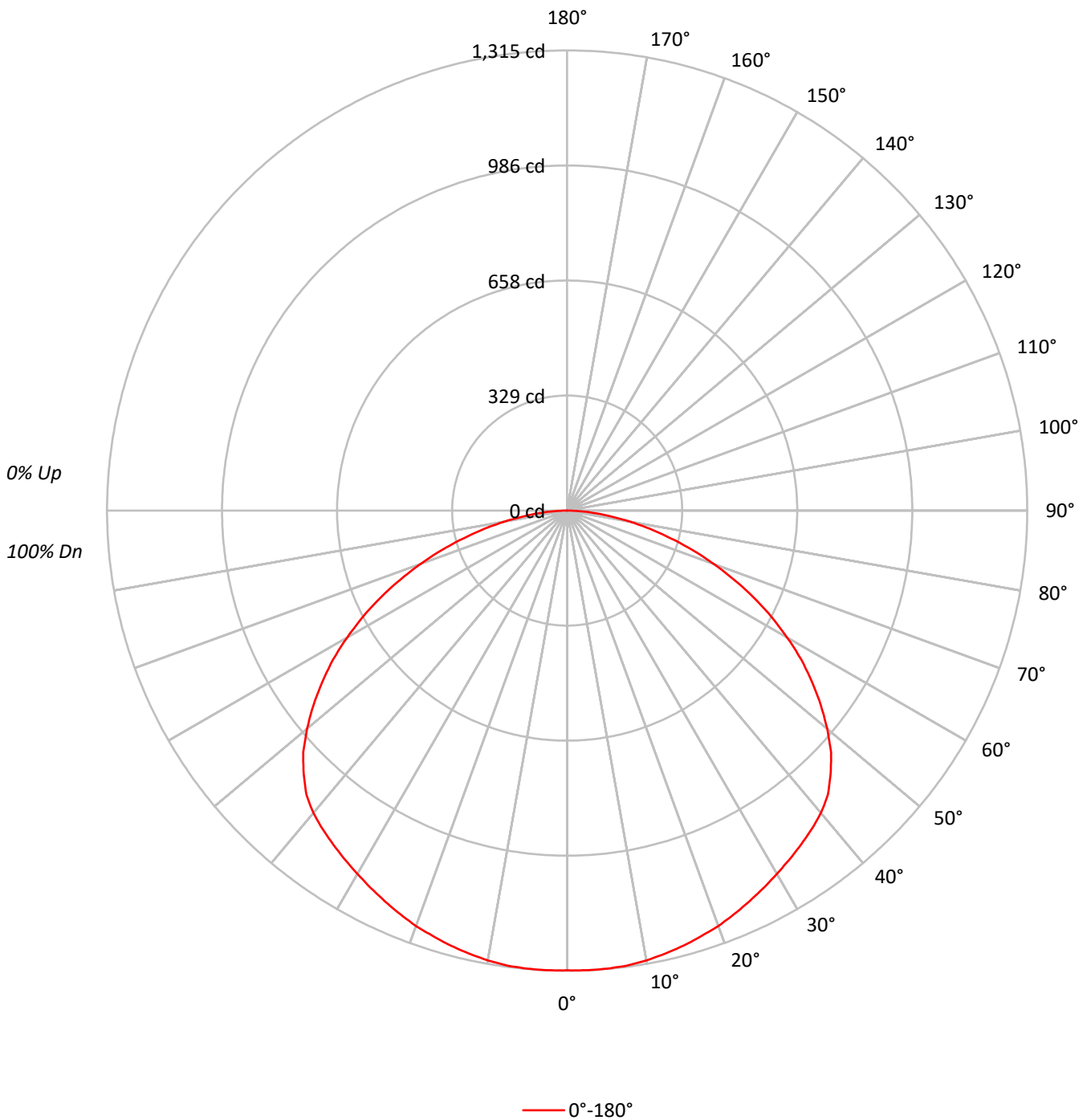
Lumens per Lamp: N/A
Luminaire Lumens: 4366.3 lumens
Efficiency: N/A
Efficacy: 39.1 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.51
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 111.8
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	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	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	82	76	95	88	81	76	84	79	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61		71	65	60		68	63	59	57
4	81	69	60	53	79	67	59	52	65	58	52		63	56	51		60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	38		50	43	38		49	43	38	36
7	63	50	40	34	62	49	40	34	47	39	34		46	39	34		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40	34	30	28
9	55	41	33	27	53	41	33	27	39	32	27		38	32	27		37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7182
5°	7210
10°	7245
15°	7283
20°	7349
25°	7431
30°	7566
35°	7776
40°	8053
45°	8232
50°	8250
55°	8146
60°	7942
65°	7613
70°	7114
75°	6466
80°	5733
85°	4667

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 8276 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.2	2.9
10°-20°	363.8	8.3
20°-30°	569.2	13.0
30°-40°	730.8	16.7
40°-50°	819.1	18.8
50°-60°	762.8	17.5
60°-70°	581.4	13.3
70°-80°	326.5	7.5
80°-90°	87.5	2.0
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°	1058.2	24.2
0°-40°	1789.0	41.0
0°-60°	3370.9	77.2
0°-90°	4366.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4366.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1314	
5°	1314	125
15°	1287	364
25°	1232	569
35°	1165	731
45°	1065	819
55°	855	763
65°	588	581
75°	306	326
85°	74	87
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1313.8
2.5°	1314.9
5°	1313.8
7.5°	1311.7
10°	1305.2
12.5°	1296.6
15°	1286.9
17.5°	1275.0
20°	1263.2
22.5°	1248.1
25°	1231.9
27.5°	1215.7
30°	1198.5
32.5°	1182.3
35°	1165.1
37.5°	1147.8
40°	1128.4
42.5°	1102.6
45°	1064.8
47.5°	1022.8
50°	970.0
52.5°	914.0
55°	854.7
57.5°	793.2
60°	726.4
62.5°	658.5
65°	588.5
67.5°	517.3
70°	445.1
72.5°	376.1
75°	306.1
77.5°	242.5
80°	182.1
82.5°	123.9
85°	74.4
87.5°	32.3
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	19.69	21.38	20.06	21.69	22.01	19.69	21.38	20.06	21.69	22.01
	3H	21.48	23.00	21.85	23.33	23.69	21.48	23.00	21.85	23.33	23.69
	4H	22.12	23.56	22.52	23.91	24.28	22.12	23.56	22.52	23.91	24.28
	6H	22.59	23.93	23.00	24.29	24.68	22.59	23.93	23.00	24.29	24.68
	8H	22.73	24.01	23.15	24.40	24.80	22.73	24.01	23.15	24.40	24.80
	12H	22.82	24.05	23.25	24.43	24.86	22.82	24.05	23.25	24.43	24.86
4H	2H	20.33	21.78	20.73	22.12	22.50	20.33	21.78	20.73	22.12	22.50
	3H	22.33	23.54	22.74	23.94	24.34	22.33	23.54	22.74	23.94	24.34
	4H	23.10	24.20	23.53	24.61	25.04	23.10	24.20	23.53	24.61	25.04
	6H	23.69	24.65	24.14	25.09	25.54	23.69	24.65	24.14	25.09	25.54
	8H	23.88	24.78	24.34	25.22	25.68	23.88	24.78	24.34	25.22	25.68
	12H	24.01	24.82	24.49	25.30	25.77	24.01	24.82	24.49	25.30	25.77
8H	4H	23.41	24.31	23.87	24.75	25.21	23.41	24.31	23.87	24.75	25.21
	6H	24.11	24.86	24.61	25.35	25.82	24.11	24.86	24.61	25.35	25.82
	8H	24.37	25.04	24.88	25.55	26.03	24.37	25.04	24.88	25.55	26.03
	12H	24.57	25.16	25.07	25.65	26.21	24.57	25.16	25.07	25.65	26.21
12H	4H	23.44	24.25	23.92	24.72	25.19	23.44	24.25	23.92	24.72	25.19
	6H	24.17	24.84	24.67	25.34	25.83	24.17	24.84	24.67	25.34	25.83
	8H	24.48	25.07	24.98	25.56	26.12	24.48	25.07	24.98	25.56	26.12