

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: P866809

Luminaire Tested: PRLX-2001-L-935-133L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866809
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-935-133L-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

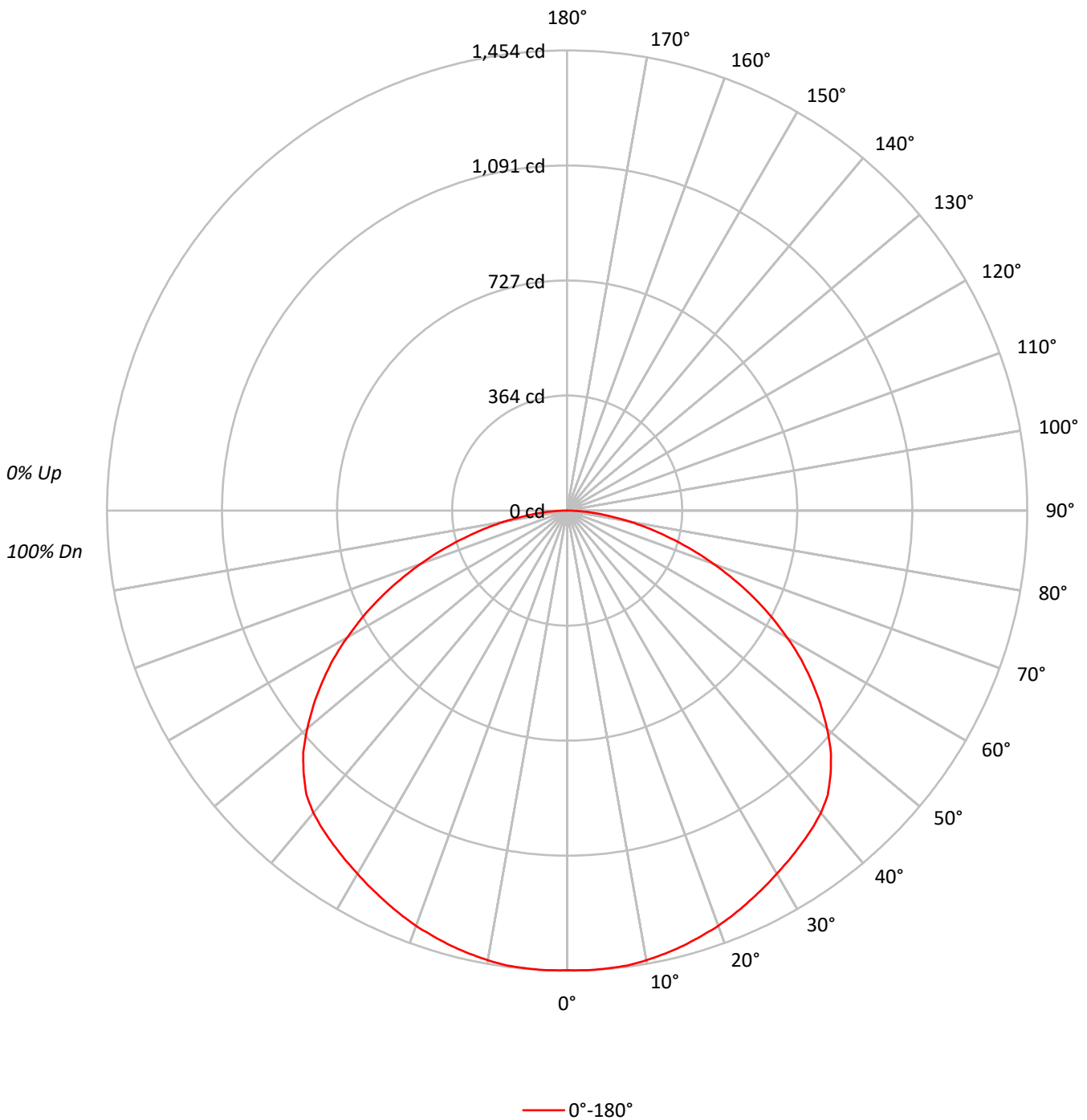
Lumens per Lamp: N/A
Luminaire Lumens: 4827.1 lumens
Efficiency: N/A
Efficacy: 43.2 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.51
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P866809

CATALOG NUMBER: PRLX-2001-L-935-133L-G-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	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°	7941
5°	7971
10°	8010
15°	8052
20°	8124
25°	8215
30°	8364
35°	8596
40°	8903
45°	9101
50°	9121
55°	9006
60°	8781
65°	8416
70°	7866
75°	7148
80°	6341
85°	5156

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 9150 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.4	2.9
10°-20°	402.2	8.3
20°-30°	629.3	13.0
30°-40°	807.9	16.7
40°-50°	905.6	18.8
50°-60°	843.3	17.5
60°-70°	642.8	13.3
70°-80°	361.0	7.5
80°-90°	96.7	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°	1169.9	24.2
0°-40°	1977.8	41.0
0°-60°	3726.7	77.2
0°-90°	4827.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4827.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1452	
5°	1452	138
15°	1423	402
25°	1362	629
35°	1288	808
45°	1177	906
55°	945	843
65°	651	643
75°	338	361
85°	82	97
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1452.5
2.5°	1453.7
5°	1452.5
7.5°	1450.1
10°	1442.9
12.5°	1433.4
15°	1422.7
17.5°	1409.6
20°	1396.5
22.5°	1379.8
25°	1361.9
27.5°	1344.0
30°	1325.0
32.5°	1307.1
35°	1288.0
37.5°	1269.0
40°	1247.5
42.5°	1218.9
45°	1177.2
47.5°	1130.8
50°	1072.4
52.5°	1010.4
55°	944.9
57.5°	877.0
60°	803.1
62.5°	728.0
65°	650.6
67.5°	571.9
70°	492.1
72.5°	415.8
75°	338.4
77.5°	268.1
80°	201.4
82.5°	137.0
85°	82.2
87.5°	35.7
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	20.04	21.73	20.41	22.04	22.36	20.04	21.73	20.41	22.04	22.36
	3H	21.82	23.35	22.20	23.68	24.04	21.82	23.35	22.20	23.68	24.04
	4H	22.47	23.91	22.87	24.26	24.63	22.47	23.91	22.87	24.26	24.63
	6H	22.94	24.27	23.35	24.64	25.03	22.94	24.27	23.35	24.64	25.03
	8H	23.08	24.36	23.50	24.75	25.14	23.08	24.36	23.50	24.75	25.14
	12H	23.17	24.40	23.60	24.78	25.21	23.17	24.40	23.60	24.78	25.21
4H	2H	20.68	22.12	21.08	22.47	22.85	20.68	22.12	21.08	22.47	22.85
	3H	22.68	23.89	23.09	24.29	24.69	22.68	23.89	23.09	24.29	24.69
	4H	23.45	24.55	23.88	24.96	25.39	23.45	24.55	23.88	24.96	25.39
	6H	24.04	25.00	24.49	25.44	25.89	24.04	25.00	24.49	25.44	25.89
	8H	24.23	25.13	24.69	25.57	26.03	24.23	25.13	24.69	25.57	26.03
	12H	24.36	25.17	24.84	25.65	26.11	24.36	25.17	24.84	25.65	26.11
8H	4H	23.76	24.65	24.21	25.10	25.56	23.76	24.65	24.21	25.10	25.56
	6H	24.46	25.21	24.95	25.70	26.17	24.46	25.21	24.95	25.70	26.17
	8H	24.72	25.39	25.22	25.89	26.38	24.72	25.39	25.22	25.89	26.38
	12H	24.92	25.51	25.42	26.00	26.56	24.92	25.51	25.42	26.00	26.56
12H	4H	23.79	24.60	24.27	25.07	25.54	23.79	24.60	24.27	25.07	25.54
	6H	24.52	25.19	25.02	25.69	26.18	24.52	25.19	25.02	25.69	26.18
	8H	24.83	25.42	25.33	25.91	26.47	24.83	25.42	25.33	25.91	26.47