

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: P866745

Luminaire Tested: PRLX-2001-L-930-133L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866745
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: Prenalux
Catalog Number: PRLX-2001-L-930-133L-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

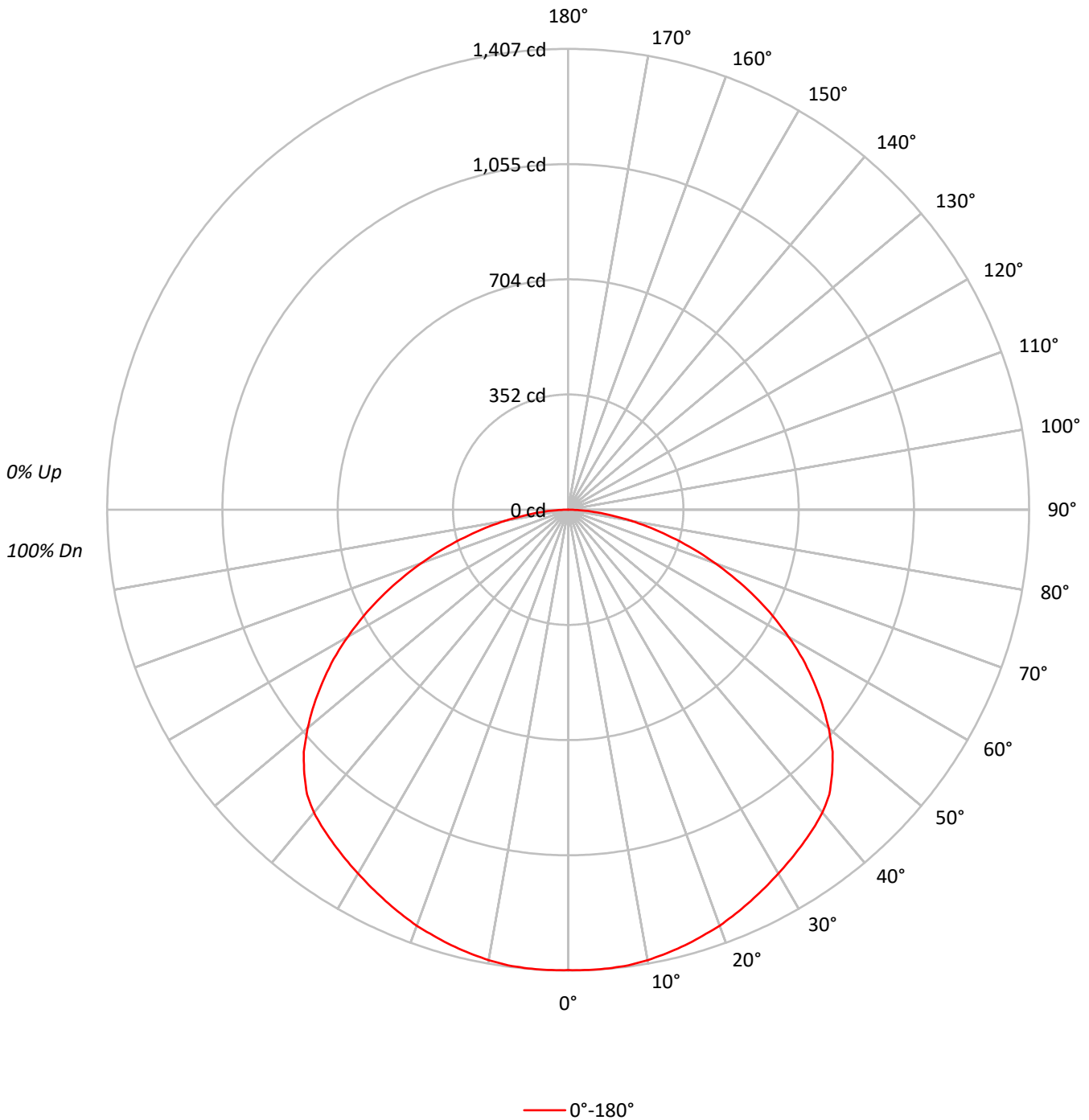
Lumens per Lamp: N/A
Luminaire Lumens: 4671.8 lumens
Efficiency: N/A
Efficacy: 41.8 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.51
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

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°	7685
5°	7714
10°	7752
15°	7793
20°	7863
25°	7951
30°	8095
35°	8320
40°	8617
45°	8809
50°	8827
55°	8716
60°	8499
65°	8144
70°	7613
75°	6918
80°	6136
85°	4993

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 8856 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.9	2.9
10°-20°	389.3	8.3
20°-30°	609.0	13.0
30°-40°	781.9	16.7
40°-50°	876.5	18.8
50°-60°	816.1	17.5
60°-70°	622.1	13.3
70°-80°	349.4	7.5
80°-90°	93.6	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°	1132.2	24.2
0°-40°	1914.2	41.0
0°-60°	3606.8	77.2
0°-90°	4671.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4671.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1406	
5°	1406	134
15°	1377	389
25°	1318	609
35°	1247	782
45°	1139	876
55°	914	816
65°	630	622
75°	328	349
85°	80	94
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1405.7
2.5°	1406.9
5°	1405.7
7.5°	1403.4
10°	1396.5
12.5°	1387.3
15°	1376.9
17.5°	1364.2
20°	1351.5
22.5°	1335.4
25°	1318.1
27.5°	1300.8
30°	1282.3
32.5°	1265.1
35°	1246.6
37.5°	1228.1
40°	1207.4
42.5°	1179.7
45°	1139.4
47.5°	1094.4
50°	1037.9
52.5°	977.9
55°	914.5
57.5°	848.7
60°	777.3
62.5°	704.6
65°	629.6
67.5°	553.5
70°	476.3
72.5°	402.5
75°	327.5
77.5°	259.5
80°	194.9
82.5°	132.6
85°	79.6
87.5°	34.6
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	19.93	21.61	20.29	21.93	22.24	19.93	21.61	20.29	21.93	22.24
	3H	21.71	23.24	22.09	23.56	23.92	21.71	23.24	22.09	23.56	23.92
	4H	22.36	23.80	22.75	24.14	24.52	22.36	23.80	22.75	24.14	24.52
	6H	22.82	24.16	23.23	24.52	24.91	22.82	24.16	23.23	24.52	24.91
	8H	22.97	24.25	23.39	24.63	25.03	22.97	24.25	23.39	24.63	25.03
	12H	23.06	24.28	23.49	24.67	25.09	23.06	24.28	23.49	24.67	25.09
4H	2H	20.57	22.01	20.97	22.36	22.73	20.57	22.01	20.97	22.36	22.73
	3H	22.57	23.78	22.98	24.17	24.57	22.57	23.78	22.98	24.17	24.57
	4H	23.33	24.43	23.77	24.84	25.28	23.33	24.43	23.77	24.84	25.28
	6H	23.93	24.89	24.38	25.33	25.78	23.93	24.89	24.38	25.33	25.78
	8H	24.11	25.01	24.57	25.46	25.92	24.11	25.01	24.57	25.46	25.92
	12H	24.25	25.06	24.73	25.53	26.00	24.25	25.06	24.73	25.53	26.00
8H	4H	23.64	24.54	24.10	24.98	25.45	23.64	24.54	24.10	24.98	25.45
	6H	24.35	25.10	24.84	25.58	26.06	24.35	25.10	24.84	25.58	26.06
	8H	24.60	25.28	25.11	25.78	26.27	24.60	25.28	25.11	25.78	26.27
	12H	24.80	25.40	25.31	25.89	26.45	24.80	25.40	25.31	25.89	26.45
12H	4H	23.68	24.49	24.15	24.96	25.43	23.68	24.49	24.15	24.96	25.43
	6H	24.40	25.08	24.91	25.58	26.06	24.40	25.08	24.91	25.58	26.06
	8H	24.71	25.31	25.22	25.80	26.36	24.71	25.31	25.22	25.80	26.36