

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: P866865

Luminaire Tested: PRLX-2001-L-940-117L-G-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866865
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-940-117L-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 7
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

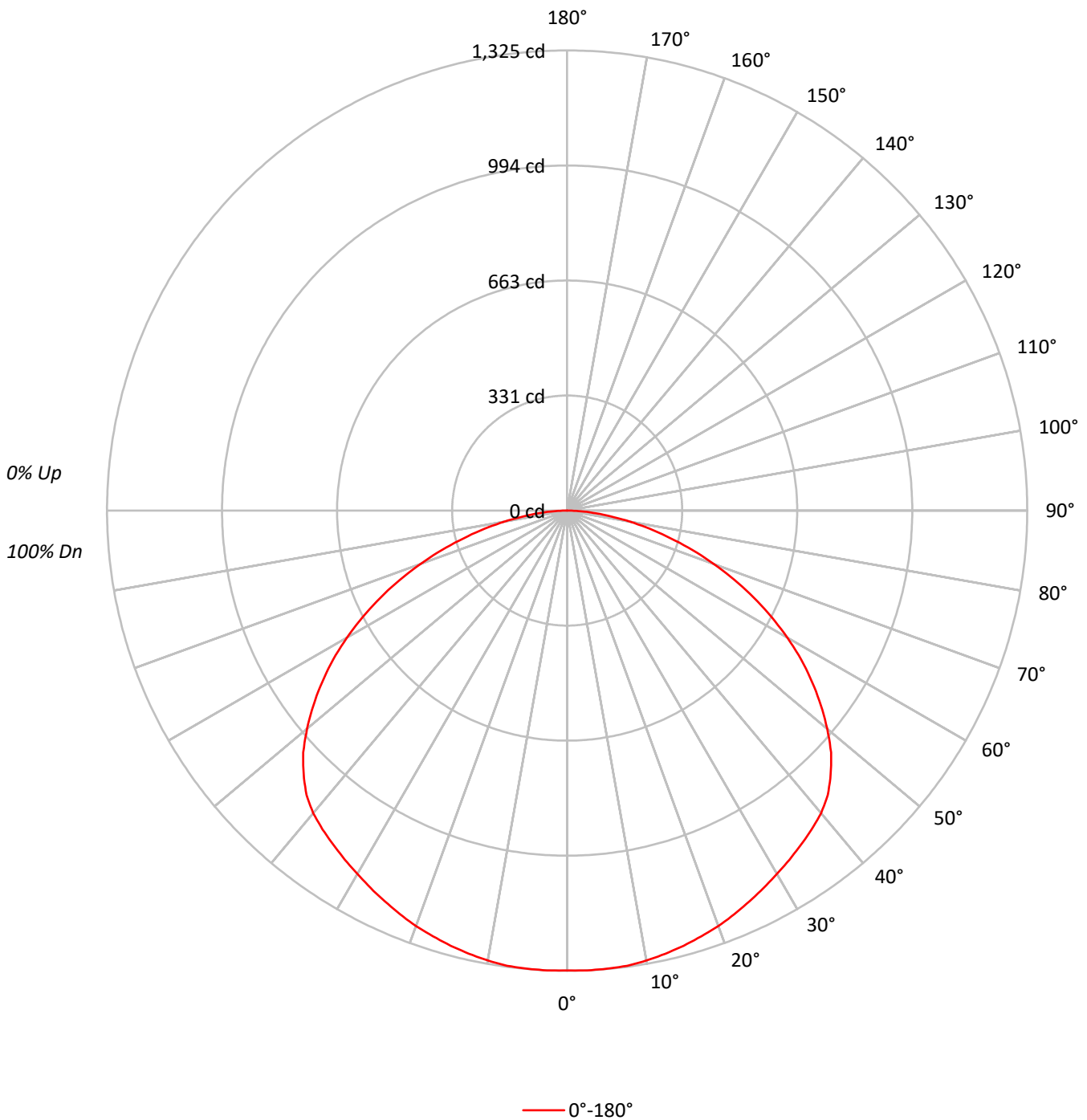
Lumens per Lamp: N/A
Luminaire Lumens: 4400.9 lumens
Efficiency: N/A
Efficacy: 46.2 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.37 / 1.51
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
Input Voltage (V): 120
Input Current (Ain): 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°	7239
5°	7267
10°	7303
15°	7341
20°	7407
25°	7490
30°	7626
35°	7837
40°	8117
45°	8298
50°	8315
55°	8210
60°	8006
65°	7672
70°	7170
75°	6516
80°	5780
85°	4704

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 8342 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.2	2.9
10°-20°	366.7	8.3
20°-30°	573.7	13.0
30°-40°	736.6	16.7
40°-50°	825.6	18.8
50°-60°	768.8	17.5
60°-70°	586.0	13.3
70°-80°	329.1	7.5
80°-90°	88.2	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°	1066.6	24.2
0°-40°	1803.2	41.0
0°-60°	3397.6	77.2
0°-90°	4400.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4400.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1324	
5°	1324	126
15°	1297	367
25°	1242	574
35°	1174	737
45°	1073	826
55°	861	769
65°	593	586
75°	308	329
85°	75	88
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1324.2
2.5°	1325.3
5°	1324.2
7.5°	1322.0
10°	1315.5
12.5°	1306.8
15°	1297.1
17.5°	1285.1
20°	1273.2
22.5°	1257.9
25°	1241.7
27.5°	1225.4
30°	1208.0
32.5°	1191.7
35°	1174.3
37.5°	1156.9
40°	1137.4
42.5°	1111.3
45°	1073.3
47.5°	1030.9
50°	977.7
52.5°	921.2
55°	861.4
57.5°	799.5
60°	732.2
62.5°	663.7
65°	593.1
67.5°	521.4
70°	448.6
72.5°	379.1
75°	308.5
77.5°	244.4
80°	183.6
82.5°	124.9
85°	75.0
87.5°	32.6
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	19.72	21.41	20.08	21.72	22.03	19.72	21.41	20.08	21.72	22.03
	3H	21.50	23.03	21.88	23.36	23.72	21.50	23.03	21.88	23.36	23.72
	4H	22.15	23.59	22.55	23.94	24.31	22.15	23.59	22.55	23.94	24.31
	6H	22.62	23.95	23.03	24.32	24.71	22.62	23.95	23.03	24.32	24.71
	8H	22.76	24.04	23.18	24.43	24.82	22.76	24.04	23.18	24.43	24.82
	12H	22.85	24.08	23.28	24.46	24.89	22.85	24.08	23.28	24.46	24.89
4H	2H	20.36	21.80	20.76	22.15	22.52	20.36	21.80	20.76	22.15	22.52
	3H	22.36	23.57	22.77	23.97	24.37	22.36	23.57	22.77	23.97	24.37
	4H	23.13	24.22	23.56	24.64	25.07	23.13	24.22	23.56	24.64	25.07
	6H	23.72	24.68	24.17	25.12	25.57	23.72	24.68	24.17	25.12	25.57
	8H	23.91	24.81	24.37	25.25	25.71	23.91	24.81	24.37	25.25	25.71
	12H	24.04	24.85	24.52	25.32	25.79	24.04	24.85	24.52	25.32	25.79
8H	4H	23.43	24.33	23.89	24.77	25.24	23.43	24.33	23.89	24.77	25.24
	6H	24.14	24.89	24.63	25.38	25.85	24.14	24.89	24.63	25.38	25.85
	8H	24.40	25.07	24.90	25.57	26.06	24.40	25.07	24.90	25.57	26.06
	12H	24.60	25.19	25.10	25.68	26.24	24.60	25.19	25.10	25.68	26.24
12H	4H	23.47	24.28	23.95	24.75	25.22	23.47	24.28	23.95	24.75	25.22
	6H	24.19	24.87	24.70	25.37	25.86	24.19	24.87	24.70	25.37	25.86
	8H	24.50	25.10	25.01	25.59	26.15	24.50	25.10	25.01	25.59	26.15