

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: P866843

Luminaire Tested: PRLX-2001-L-935-67L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866843
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-62)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2001-L-935-67L-G-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

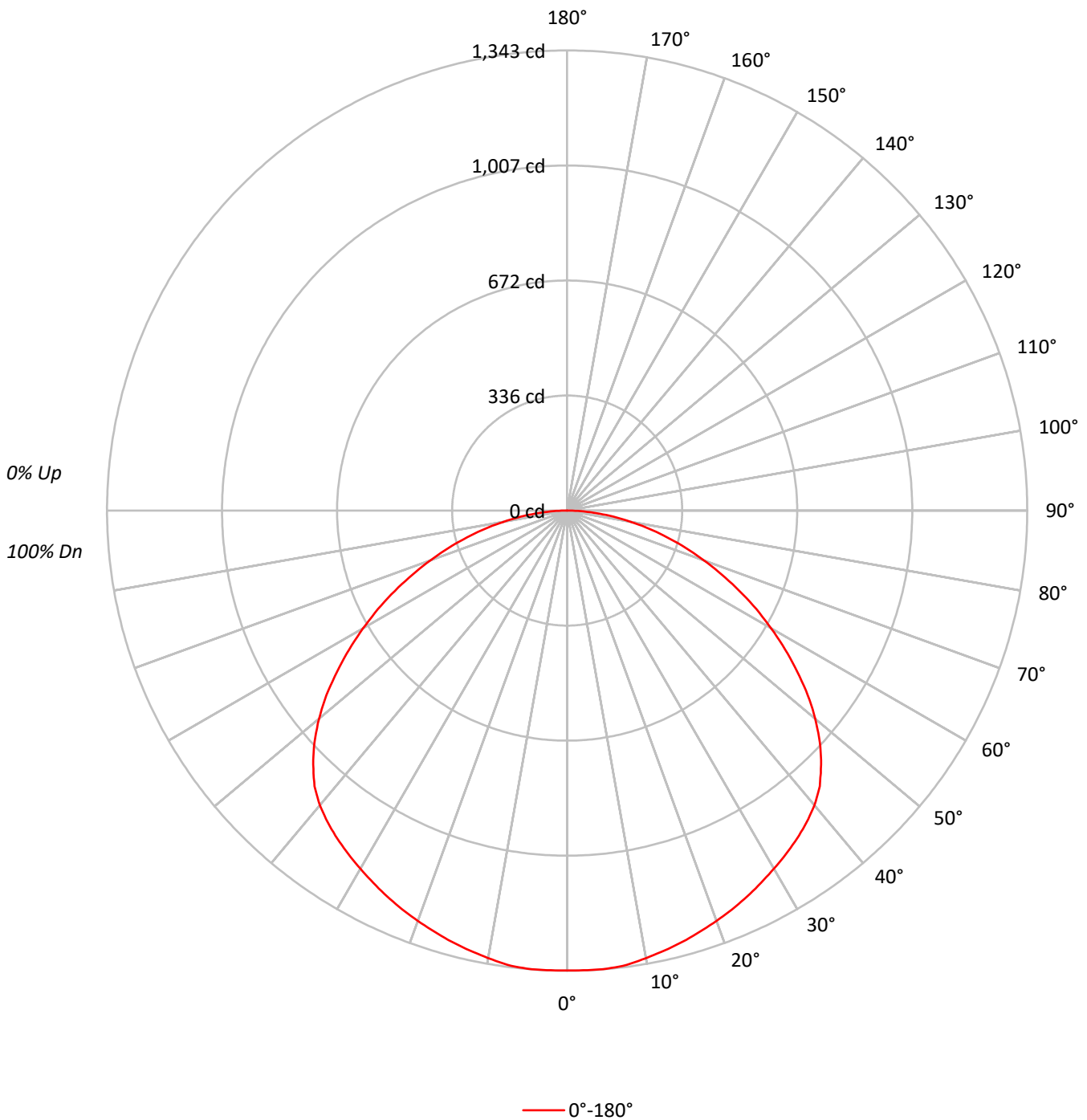
Lumens per Lamp: N/A
Luminaire Lumens: 4308.4 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.48
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 50.4
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	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	60		68	64	59	57
4	81	69	60	53	79	68	59	53	65	58	52		63	56	51		61	55	51	48
5	75	62	52	45	73	60	52	45	58	51	45		56	49	44		54	48	44	42
6	69	55	46	39	67	54	46	39	52	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	34	47	40	34		46	39	34		45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41	35	30	28
9	55	42	33	28	54	41	33	27	40	32	27		39	32	27		38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25		36	29	25		35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7338
5°	7366
10°	7363
15°	7373
20°	7415
25°	7497
30°	7619
35°	7804
40°	8014
45°	8105
50°	8041
55°	7814
60°	7517
65°	7175
70°	6792
75°	6379
80°	5938
85°	5307

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8105 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.6	3.0
10°-20°	368.3	8.5
20°-30°	574.0	13.3
30°-40°	732.5	17.0
40°-50°	806.3	18.7
50°-60°	732.6	17.0
60°-70°	549.6	12.8
70°-80°	321.2	7.5
80°-90°	96.2	2.2
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°	1069.9	24.8
0°-40°	1802.4	41.8
0°-60°	3341.4	77.6
0°-90°	4308.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4308.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1342	
5°	1342	128
15°	1303	368
25°	1243	574
35°	1169	733
45°	1048	806
55°	820	733
65°	555	550
75°	302	321
85°	85	96
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1342.2
2.5°	1342.7
5°	1342.2
7.5°	1337.5
10°	1326.3
12.5°	1315.1
15°	1302.8
17.5°	1288.7
20°	1274.6
22.5°	1259.3
25°	1242.8
27.5°	1225.2
30°	1207.0
32.5°	1188.8
35°	1169.4
37.5°	1147.7
40°	1123.0
42.5°	1091.2
45°	1048.3
47.5°	1000.7
50°	945.5
52.5°	885.6
55°	819.8
57.5°	754.5
60°	687.5
62.5°	622.3
65°	554.7
67.5°	488.3
70°	424.9
72.5°	363.7
75°	302.0
77.5°	245.6
80°	188.6
82.5°	135.2
85°	84.6
87.5°	39.4
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	19.40	21.08	19.77	21.39	21.71	19.40	21.08	19.77	21.39	21.71
	3H	21.18	22.69	21.55	23.02	23.38	21.18	22.69	21.55	23.02	23.38
	4H	21.86	23.29	22.26	23.64	24.01	21.86	23.29	22.26	23.64	24.01
	6H	22.39	23.72	22.80	24.09	24.48	22.39	23.72	22.80	24.09	24.48
	8H	22.58	23.85	23.00	24.24	24.63	22.58	23.85	23.00	24.24	24.63
	12H	22.70	23.92	23.13	24.30	24.73	22.70	23.92	23.13	24.30	24.73
4H	2H	20.03	21.46	20.43	21.81	22.18	20.03	21.46	20.43	21.81	22.18
	3H	22.03	23.24	22.44	23.63	24.03	22.03	23.24	22.44	23.63	24.03
	4H	22.85	23.94	23.28	24.35	24.79	22.85	23.94	23.28	24.35	24.79
	6H	23.52	24.48	23.97	24.92	25.37	23.52	24.48	23.97	24.92	25.37
	8H	23.76	24.65	24.22	25.09	25.56	23.76	24.65	24.22	25.09	25.56
	12H	23.94	24.74	24.41	25.22	25.68	23.94	24.74	24.41	25.22	25.68
8H	4H	23.18	24.08	23.64	24.52	24.98	23.18	24.08	23.64	24.52	24.98
	6H	23.98	24.73	24.48	25.22	25.69	23.98	24.73	24.48	25.22	25.69
	8H	24.30	24.97	24.81	25.47	25.96	24.30	24.97	24.81	25.47	25.96
	12H	24.56	25.15	25.06	25.64	26.20	24.56	25.15	25.06	25.64	26.20
12H	4H	23.22	24.03	23.70	24.50	24.97	23.22	24.03	23.70	24.50	24.97
	6H	24.05	24.72	24.56	25.23	25.71	24.05	24.72	24.56	25.23	25.71
	8H	24.43	25.02	24.93	25.51	26.07	24.43	25.02	24.93	25.51	26.07