

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: P867064

Luminaire Tested: PRLX-2002-L-935-133L-G-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867064
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-71)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-935-133L-G-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 8
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

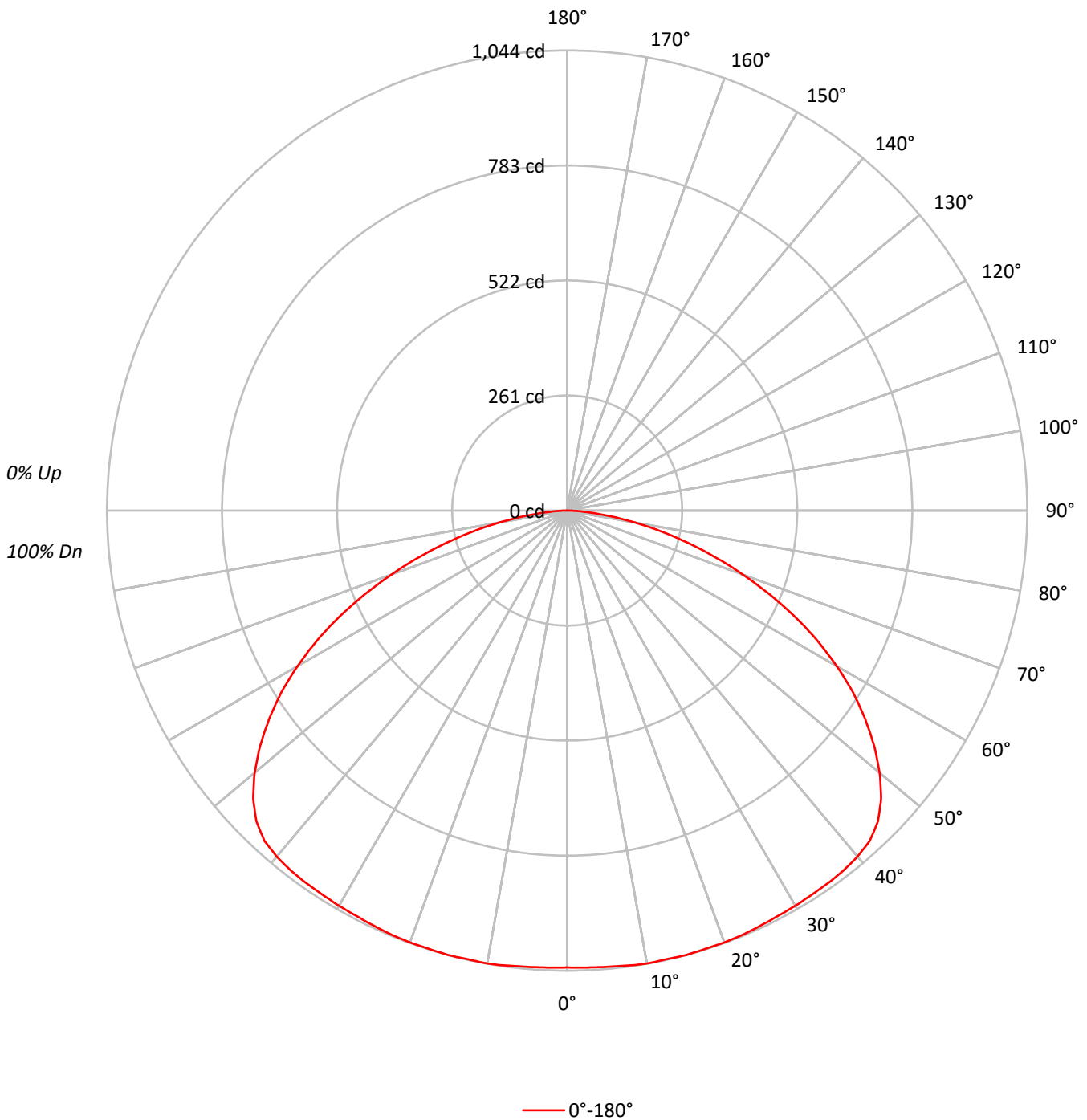
Lumens per Lamp: N/A
Luminaire Lumens: 3956.5 lumens
Efficiency: N/A
Efficacy: 35.4 lumens/watt
Spacing Criteria (0/90/45): 1.52 / 1.52 / 1.65
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 111.8
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: 0.5 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	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	56	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	44	38	66	53	44	37	51	43	37	49	42	37	48	41	36	34
7	63	48	39	33	61	48	39	33	46	38	32	44	37	32	43	37	32	30
8	58	44	35	29	56	43	35	29	42	34	29	41	34	28	39	33	28	26
9	54	40	32	26	53	39	31	26	38	31	26	37	30	25	36	30	25	23
10	50	37	29	23	49	36	28	23	35	28	23	34	28	23	33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5114
5°	5146
10°	5229
15°	5332
20°	5474
25°	5656
30°	5899
35°	6215
40°	6600
45°	6959
50°	7106
55°	7103
60°	6972
65°	6663
70°	6119
75°	5429
80°	4435
85°	2966

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 7118 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.3	2.5
10°-20°	295.7	7.5
20°-30°	480.8	12.2
30°-40°	647.6	16.4
40°-50°	764.7	19.3
50°-60°	736.0	18.6
60°-70°	562.8	14.2
70°-80°	302.3	7.6
80°-90°	67.2	1.7
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°	875.8	22.1
0°-40°	1523.5	38.5
0°-60°	3024.2	76.4
0°-90°	3956.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3956.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1037	
5°	1039	99
15°	1044	296
25°	1039	481
35°	1032	648
45°	997	765
55°	826	736
65°	571	563
75°	285	302
85°	52	67
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1036.6
2.5°	1037.8
5°	1039.0
7.5°	1041.4
10°	1043.8
12.5°	1042.6
15°	1043.8
17.5°	1042.6
20°	1042.6
22.5°	1041.4
25°	1039.0
27.5°	1036.6
30°	1035.4
32.5°	1033.1
35°	1031.9
37.5°	1029.5
40°	1024.7
42.5°	1016.4
45°	997.3
47.5°	966.3
50°	925.8
52.5°	878.2
55°	825.7
57.5°	769.7
60°	706.6
62.5°	641.0
65°	570.7
67.5°	498.1
70°	424.2
72.5°	353.9
75°	284.8
77.5°	218.0
80°	156.1
82.5°	98.9
85°	52.4
87.5°	17.9
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	19.43	21.15	19.80	21.46	21.78	19.43	21.15	19.80	21.46	21.78
	3H	21.19	22.74	21.56	23.07	23.42	21.19	22.74	21.56	23.07	23.42
	4H	21.79	23.26	22.19	23.61	23.98	21.79	23.26	22.19	23.61	23.98
	6H	22.19	23.55	22.60	23.91	24.30	22.19	23.55	22.60	23.91	24.30
	8H	22.29	23.59	22.71	23.98	24.38	22.29	23.59	22.71	23.98	24.38
	12H	22.34	23.59	22.77	23.97	24.40	22.34	23.59	22.77	23.97	24.40
4H	2H	20.08	21.55	20.48	21.89	22.27	20.08	21.55	20.48	21.89	22.27
	3H	22.04	23.27	22.44	23.66	24.06	22.04	23.27	22.44	23.66	24.06
	4H	22.76	23.87	23.19	24.29	24.72	22.76	23.87	23.19	24.29	24.72
	6H	23.27	24.24	23.72	24.68	25.13	23.27	24.24	23.72	24.68	25.13
	8H	23.40	24.31	23.86	24.75	25.22	23.40	24.31	23.86	24.75	25.22
	12H	23.48	24.30	23.96	24.78	25.25	23.48	24.30	23.96	24.78	25.25
8H	4H	23.04	23.96	23.50	24.40	24.86	23.04	23.96	23.50	24.40	24.86
	6H	23.64	24.40	24.14	24.89	25.36	23.64	24.40	24.14	24.89	25.36
	8H	23.83	24.51	24.34	25.02	25.50	23.83	24.51	24.34	25.02	25.50
	12H	23.96	24.56	24.46	25.05	25.60	23.96	24.56	24.46	25.05	25.60
12H	4H	23.07	23.89	23.55	24.37	24.83	23.07	23.89	23.55	24.37	24.83
	6H	23.68	24.36	24.19	24.87	25.35	23.68	24.36	24.19	24.87	25.35
	8H	23.91	24.51	24.42	25.00	25.56	23.91	24.51	24.42	25.00	25.56