

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: P867000

Luminaire Tested: PRLX-2002-L-930-133L-G-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867000
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-930-133L-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

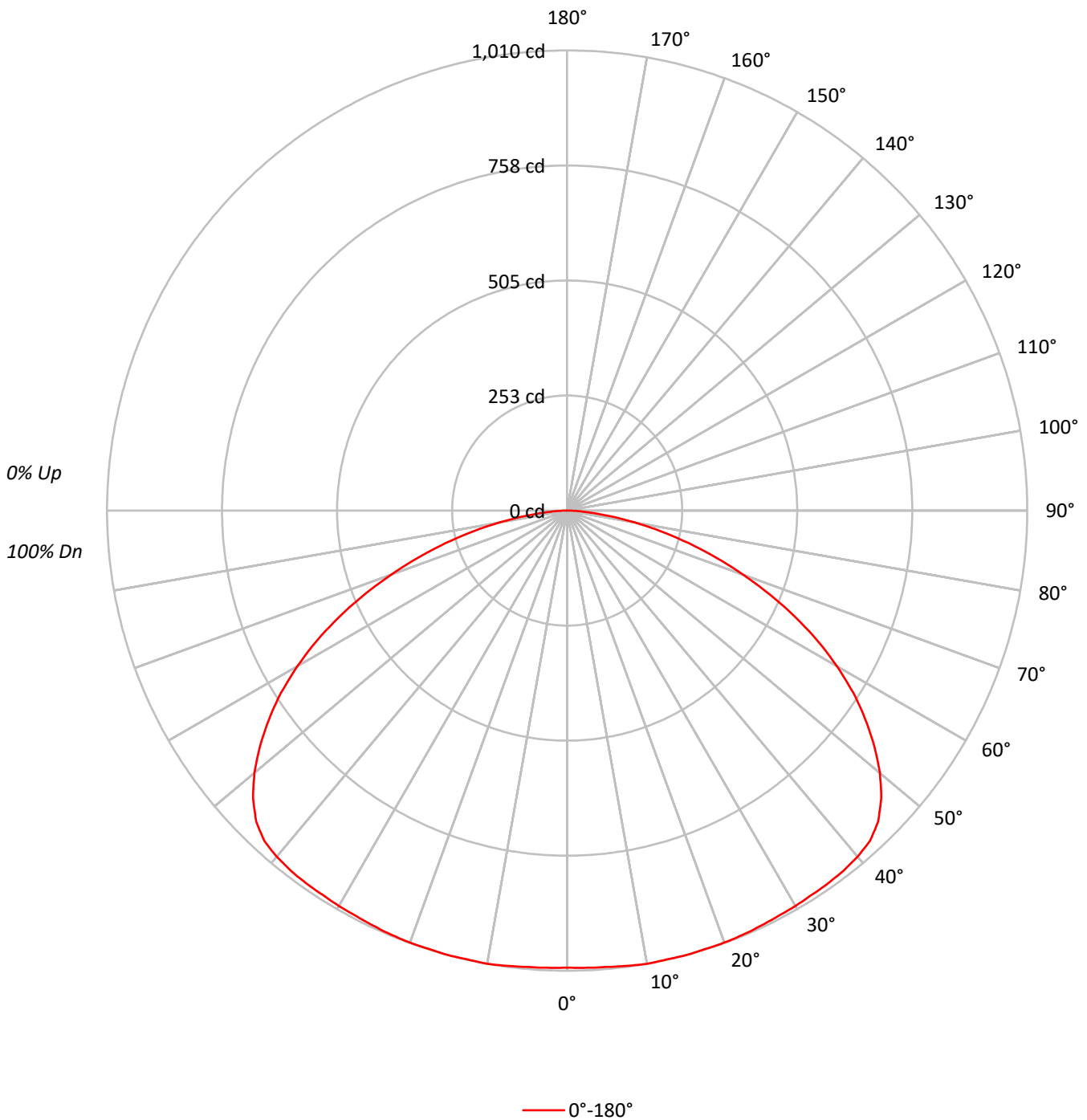
Lumens per Lamp: N/A
Luminaire Lumens: 3829.2 lumens
Efficiency: N/A
Efficacy: 34.3 lumens/watt
Spacing Criteria (0/90/45): 1.52 / 1.52 / 1.65
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 111.8
Input Voltage (V): 120
Input Current (A_{in}): 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°	4950
5°	4980
10°	5061
15°	5160
20°	5298
25°	5474
30°	5709
35°	6015
40°	6387
45°	6735
50°	6877
55°	6875
60°	6747
65°	6449
70°	5922
75°	5254
80°	4293
85°	2870

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 6888 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.1	2.5
10°-20°	286.1	7.5
20°-30°	465.3	12.2
30°-40°	626.8	16.4
40°-50°	740.1	19.3
50°-60°	712.3	18.6
60°-70°	544.7	14.2
70°-80°	292.5	7.6
80°-90°	65.1	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°	847.6	22.1
0°-40°	1474.4	38.5
0°-60°	2926.9	76.4
0°-90°	3829.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3829.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1003	
5°	1006	96
15°	1010	286
25°	1006	465
35°	999	627
45°	965	740
55°	799	712
65°	552	545
75°	276	293
85°	51	65
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1003.3
2.5°	1004.4
5°	1005.6
7.5°	1007.9
10°	1010.2
12.5°	1009.0
15°	1010.2
17.5°	1009.0
20°	1009.0
22.5°	1007.9
25°	1005.6
27.5°	1003.3
30°	1002.1
32.5°	999.8
35°	998.7
37.5°	996.4
40°	991.7
42.5°	983.7
45°	965.2
47.5°	935.2
50°	896.0
52.5°	849.9
55°	799.2
57.5°	745.0
60°	683.8
62.5°	620.4
65°	552.4
67.5°	482.0
70°	410.5
72.5°	342.5
75°	275.6
77.5°	211.0
80°	151.1
82.5°	95.7
85°	50.7
87.5°	17.3
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	19.32	21.03	19.69	21.35	21.66	19.32	21.03	19.69	21.35	21.66
	3H	21.07	22.63	21.45	22.95	23.31	21.07	22.63	21.45	22.95	23.31
	4H	21.68	23.14	22.08	23.49	23.86	21.68	23.14	22.08	23.49	23.86
	6H	22.08	23.44	22.48	23.80	24.19	22.08	23.44	22.48	23.80	24.19
	8H	22.18	23.48	22.60	23.87	24.26	22.18	23.48	22.60	23.87	24.26
	12H	22.23	23.47	22.66	23.86	24.28	22.23	23.47	22.66	23.86	24.28
4H	2H	19.97	21.43	20.37	21.78	22.15	19.97	21.43	20.37	21.78	22.15
	3H	21.92	23.15	22.33	23.55	23.95	21.92	23.15	22.33	23.55	23.95
	4H	22.65	23.76	23.08	24.17	24.61	22.65	23.76	23.08	24.17	24.61
	6H	23.15	24.13	23.60	24.57	25.02	23.15	24.13	23.60	24.57	25.02
	8H	23.29	24.20	23.75	24.64	25.10	23.29	24.20	23.75	24.64	25.10
	12H	23.37	24.19	23.85	24.66	25.13	23.37	24.19	23.85	24.66	25.13
8H	4H	22.93	23.84	23.39	24.28	24.75	22.93	23.84	23.39	24.28	24.75
	6H	23.53	24.29	24.02	24.78	25.25	23.53	24.29	24.02	24.78	25.25
	8H	23.72	24.40	24.22	24.90	25.39	23.72	24.40	24.22	24.90	25.39
	12H	23.84	24.44	24.35	24.93	25.49	23.84	24.44	24.35	24.93	25.49
12H	4H	22.96	23.78	23.43	24.25	24.72	22.96	23.78	23.43	24.25	24.72
	6H	23.57	24.25	24.07	24.75	25.24	23.57	24.25	24.07	24.75	25.24
	8H	23.80	24.40	24.30	24.89	25.45	23.80	24.40	24.30	24.89	25.45