

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: P866980

Luminaire Tested: PRLX-2002-L-930-100L-L-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866980
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-83)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-930-100L-L-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

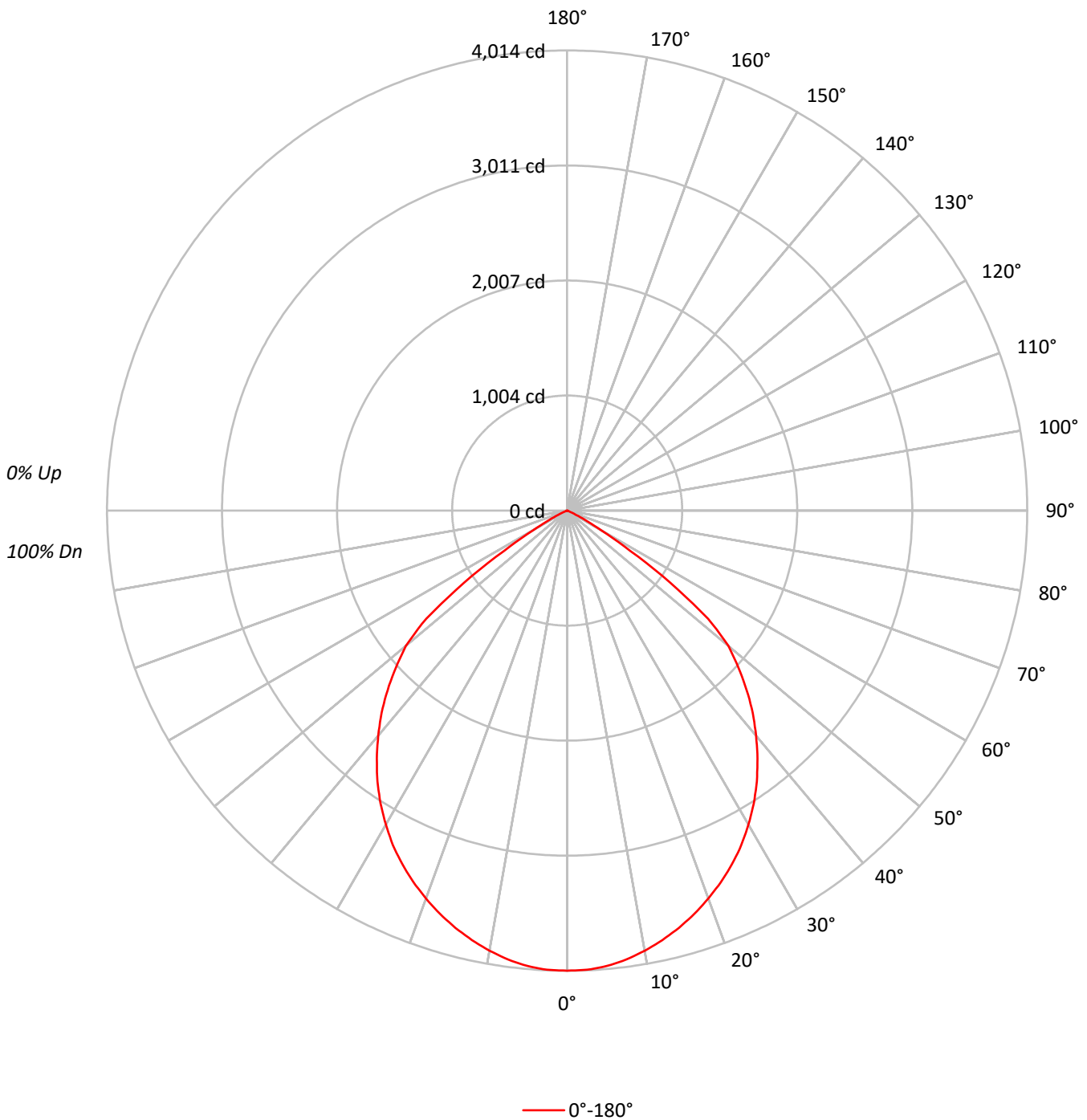
Lumens per Lamp: N/A
Luminaire Lumens: 7591.5 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.27
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	73	68	65	63
5	84	73	65	60	82	72	65	60	70	64	59	68	63	58	66	62	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	47	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	43	39	49	43	39	48	43	39	37
10	60	48	41	36	59	47	40	36	46	40	36	45	40	35	45	39	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	19803
5°	19747
10°	19535
15°	19244
20°	18909
25°	18523
30°	18021
35°	17372
40°	16508
45°	15457
50°	14089
55°	9420
60°	3347
65°	774
70°	124
75°	132
80°	170
85°	192

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15457 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.8	5.0
10°-20°	1061.8	14.0
20°-30°	1565.8	20.6
30°-40°	1799.3	23.7
40°-50°	1703.4	22.4
50°-60°	969.8	12.8
60°-70°	102.8	1.4
70°-80°	7.4	0.1
80°-90°	3.4	0.0
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°	3005.4	39.6
0°-40°	4804.7	63.3
0°-60°	7477.9	98.5
0°-90°	7591.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7591.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4014	
5°	3987	378
15°	3768	1062
25°	3402	1566
35°	2884	1799
45°	2215	1703
55°	1095	970
65°	66	103
75°	7	7
85°	3	3
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	4013.8
2.5°	4009.5
5°	3987.1
7.5°	3950.1
10°	3899.3
12.5°	3837.3
15°	3767.6
17.5°	3688.4
20°	3601.4
22.5°	3506.7
25°	3402.5
27.5°	3290.6
30°	3163.2
32.5°	3028.9
35°	2884.2
37.5°	2727.5
40°	2563.1
42.5°	2396.9
45°	2215.3
47.5°	2026.7
50°	1835.6
52.5°	1549.7
55°	1095.1
57.5°	653.5
60°	339.2
62.5°	169.6
65°	66.3
67.5°	12.9
70°	8.6
72.5°	7.7
75°	6.9
77.5°	6.0
80°	6.0
82.5°	4.3
85°	3.4
87.5°	1.7
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	16.27	17.63	16.63	17.94	18.26	16.27	17.63	16.63	17.94	18.26
	3H	16.14	17.34	16.52	17.67	18.03	16.14	17.34	16.52	17.67	18.03
	4H	16.08	17.18	16.48	17.53	17.92	16.08	17.18	16.48	17.53	17.92
	6H	16.00	17.01	16.41	17.38	17.78	16.00	17.01	16.41	17.38	17.78
	8H	15.96	16.92	16.39	17.31	17.71	15.96	16.92	16.39	17.31	17.71
	12H	15.92	16.83	16.35	17.22	17.65	15.92	16.83	16.35	17.22	17.65
4H	2H	16.10	17.20	16.50	17.55	17.94	16.10	17.20	16.50	17.55	17.94
	3H	15.97	16.86	16.39	17.27	17.67	15.97	16.86	16.39	17.27	17.67
	4H	15.89	16.68	16.32	17.10	17.54	15.89	16.68	16.32	17.10	17.54
	6H	15.81	16.49	16.27	16.93	17.40	15.81	16.49	16.27	16.93	17.40
	8H	15.75	16.39	16.22	16.83	17.30	15.75	16.39	16.22	16.83	17.30
	12H	15.70	16.27	16.19	16.75	17.22	15.70	16.27	16.19	16.75	17.22
8H	4H	15.75	16.38	16.22	16.83	17.30	15.75	16.38	16.22	16.83	17.30
	6H	15.64	16.17	16.15	16.66	17.14	15.64	16.17	16.15	16.66	17.14
	8H	15.58	16.05	16.10	16.57	17.06	15.58	16.05	16.10	16.57	17.06
	12H	15.53	15.95	16.04	16.45	17.02	15.53	15.95	16.04	16.45	17.02
12H	4H	15.70	16.26	16.19	16.74	17.22	15.70	16.26	16.19	16.74	17.22
	6H	15.58	16.05	16.10	16.57	17.06	15.58	16.05	16.10	16.57	17.06
	8H	15.53	15.95	16.04	16.45	17.02	15.53	15.95	16.04	16.45	17.02