

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: P866986

Luminaire Tested: PRLX-2002-L-930-100L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866986
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-70)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-930-100L-G-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TRUNCATED DOME WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 6
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

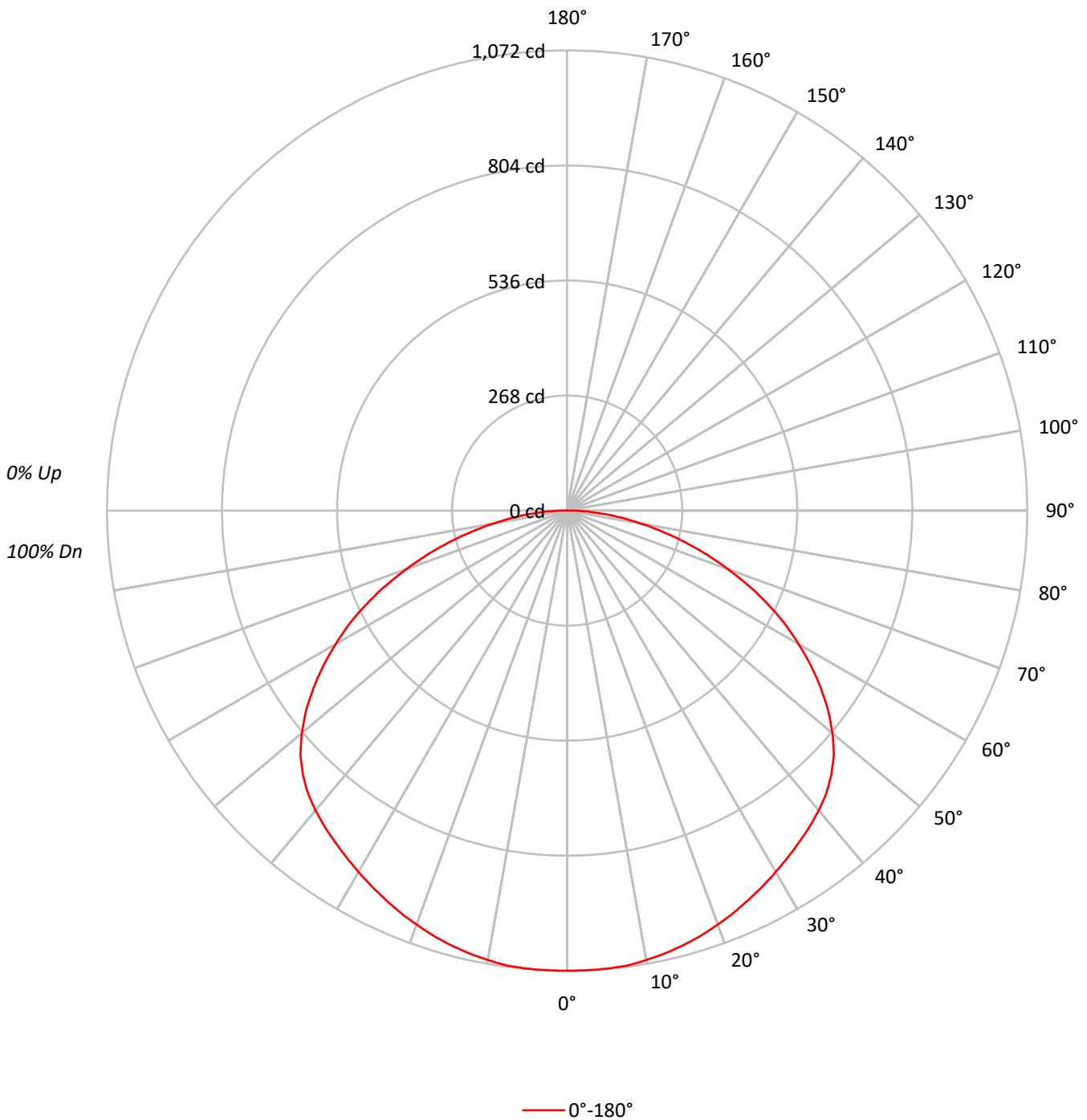
Lumens per Lamp: N/A
Luminaire Lumens: 3665.7 lumens
Efficiency: N/A
Efficacy: 46.2 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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: 0.5 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	98	94	105	101	96	93	96	93	90	92	89	87	89	86	84	82
2	98	89	82	75	95	87	80	75	83	78	73	80	75	71	77	73	69	67
3	88	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	57	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	45	38	66	53	44	38	51	43	37	50	42	37	48	42	37	35
7	63	49	40	33	61	48	39	33	46	39	33	45	38	33	44	37	32	30
8	58	44	36	29	57	44	35	29	42	35	29	41	34	29	40	33	29	27
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	23	34	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5289
5°	5304
10°	5327
15°	5352
20°	5389
25°	5446
30°	5538
35°	5679
40°	5873
45°	6073
50°	6192
55°	6206
60°	6150
65°	6020
70°	5738
75°	5400
80°	4967
85°	4580

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 6217 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.0	2.8
10°-20°	296.2	8.1
20°-30°	462.2	12.6
30°-40°	591.4	16.1
40°-50°	670.0	18.3
50°-60°	643.9	17.6
60°-70°	508.8	13.9
70°-80°	300.1	8.2
80°-90°	91.2	2.5
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
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0°-30°	860.4	23.5
0°-40°	1451.8	39.6
0°-60°	2765.7	75.4
0°-90°	3665.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3665.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1072	
5°	1071	102
15°	1048	296
25°	1000	462
35°	943	591
45°	870	670
55°	722	644
65°	516	509
75°	283	300
85°	81	91
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1071.9
2.5°	1071.9
5°	1071.0
7.5°	1069.3
10°	1063.3
12.5°	1056.4
15°	1047.8
17.5°	1038.3
20°	1026.3
22.5°	1014.2
25°	1000.4
27.5°	986.7
30°	972.0
32.5°	957.4
35°	942.8
37.5°	928.1
40°	911.8
42.5°	893.7
45°	870.4
47.5°	842.9
50°	806.7
52.5°	767.1
55°	721.5
57.5°	674.1
60°	623.3
62.5°	571.7
65°	515.7
67.5°	458.0
70°	397.8
72.5°	340.9
75°	283.3
77.5°	227.3
80°	174.8
82.5°	125.7
85°	80.9
87.5°	41.3
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	18.79	20.50	19.16	20.81	21.13	18.79	20.50	19.16	20.81	21.13
	3H	20.71	22.26	21.08	22.58	22.94	20.71	22.26	21.08	22.58	22.94
	4H	21.43	22.89	21.83	23.24	23.61	21.43	22.89	21.83	23.24	23.61
	6H	21.97	23.33	22.38	23.70	24.09	21.97	23.33	22.38	23.70	24.09
	8H	22.16	23.46	22.58	23.85	24.25	22.16	23.46	22.58	23.85	24.25
	12H	22.30	23.55	22.73	23.93	24.36	22.30	23.55	22.73	23.93	24.36
4H	2H	19.48	20.94	19.87	21.29	21.66	19.48	20.94	19.87	21.29	21.66
	3H	21.60	22.84	22.01	23.24	23.63	21.60	22.84	22.01	23.24	23.63
	4H	22.46	23.58	22.89	23.99	24.42	22.46	23.58	22.89	23.99	24.42
	6H	23.14	24.12	23.59	24.56	25.01	23.14	24.12	23.59	24.56	25.01
	8H	23.38	24.30	23.84	24.74	25.20	23.38	24.30	23.84	24.74	25.20
	12H	23.57	24.40	24.05	24.87	25.34	23.57	24.40	24.05	24.87	25.34
8H	4H	22.80	23.72	23.26	24.17	24.63	22.80	23.72	23.26	24.17	24.63
	6H	23.61	24.38	24.10	24.87	25.34	23.61	24.38	24.10	24.87	25.34
	8H	23.94	24.63	24.44	25.13	25.61	23.94	24.63	24.44	25.13	25.61
	12H	24.21	24.82	24.72	25.31	25.87	24.21	24.82	24.72	25.31	25.87
12H	4H	22.85	23.68	23.33	24.15	24.62	22.85	23.68	23.33	24.15	24.62
	6H	23.68	24.38	24.19	24.88	25.36	23.68	24.38	24.19	24.88	25.36
	8H	24.07	24.68	24.57	25.17	25.73	24.07	24.68	24.57	25.17	25.73