

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: P867378

Luminaire Tested: PRLX-2004-L-940-117L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867378
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-74)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2004-L-940-117L-G-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
BELL WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

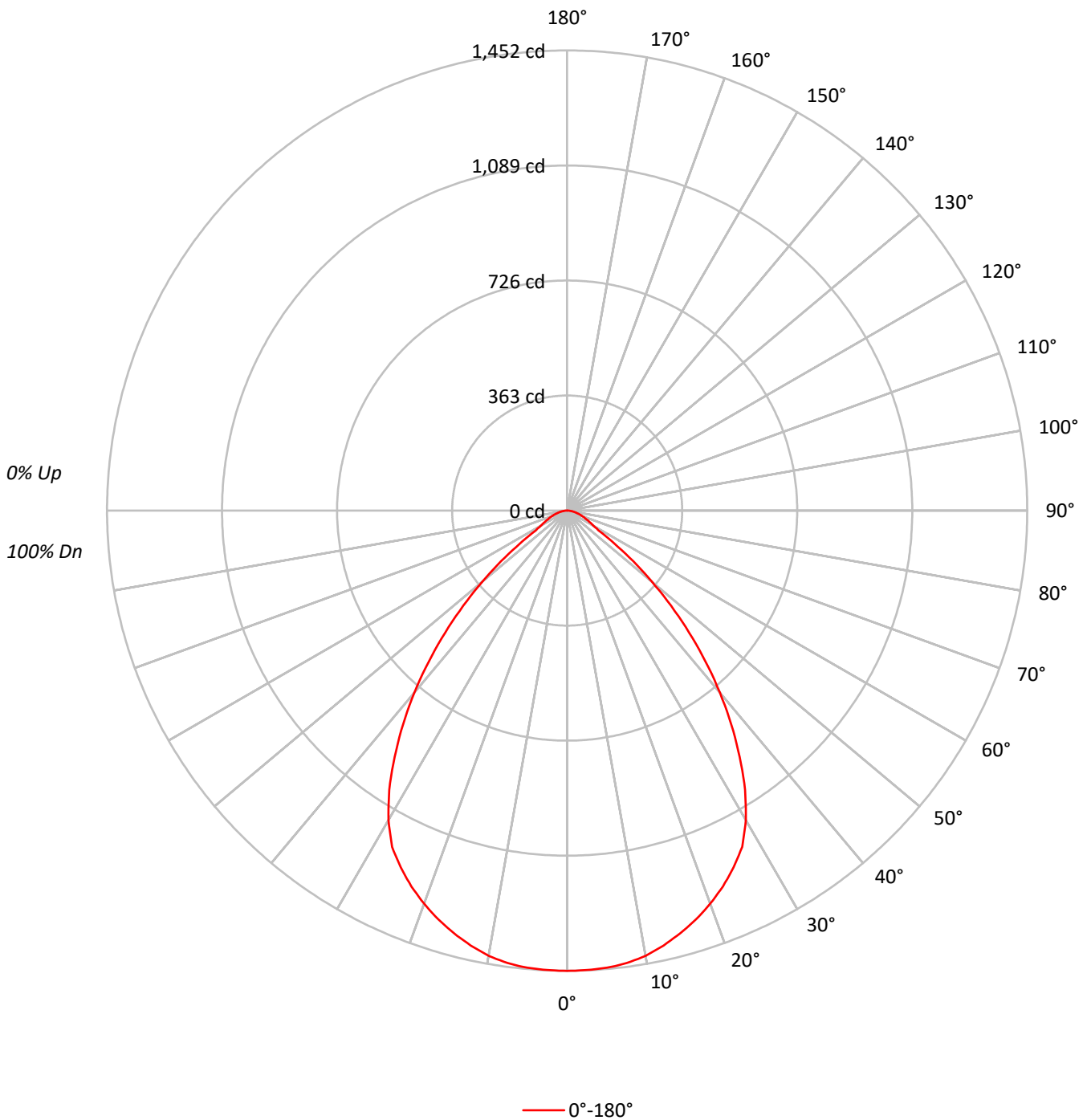
Lumens per Lamp: N/A
Luminaire Lumens: 2396.2 lumens
Efficiency: N/A
Efficacy: 25.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.15
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64
5	85	75	67	62	83	73	67	62	72	66	61	70	64	60	68	63	60	58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	49	48
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	39	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7166
5°	7172
10°	7146
15°	7052
20°	6930
25°	6765
30°	6424
35°	5718
40°	4828
45°	3797
50°	2676
55°	1560
60°	943
65°	811
70°	721
75°	642
80°	585
85°	555

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3797 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.6	5.7
10°-20°	389.1	16.2
20°-30°	569.9	23.8
30°-40°	589.5	24.6
40°-50°	418.6	17.5
50°-60°	174.2	7.3
60°-70°	70.3	2.9
70°-80°	36.3	1.5
80°-90°	10.8	0.4
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°	1096.5	45.8
0°-40°	1686.0	70.4
0°-60°	2278.9	95.1
0°-90°	2396.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2396.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1452	
5°	1448	138
15°	1381	389
25°	1243	570
35°	949	590
45°	544	419
55°	181	174
65°	70	70
75°	34	36
85°	10	11
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1452.4
2.5°	1451.3
5°	1448.1
7.5°	1440.4
10°	1426.3
12.5°	1405.7
15°	1380.7
17.5°	1352.5
20°	1319.9
22.5°	1284.0
25°	1242.7
27.5°	1196.0
30°	1127.6
32.5°	1045.0
35°	949.4
37.5°	850.6
40°	749.6
42.5°	646.4
45°	544.2
47.5°	444.3
50°	348.7
52.5°	262.9
55°	181.4
57.5°	120.6
60°	95.6
62.5°	82.6
65°	69.5
67.5°	59.7
70°	50.0
72.5°	41.3
75°	33.7
77.5°	27.2
80°	20.6
82.5°	15.2
85°	9.8
87.5°	4.3
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	8.78	10.06	9.14	10.38	10.69	8.78	10.06	9.14	10.38	10.69
	3H	9.85	10.98	10.23	11.31	11.68	9.85	10.98	10.23	11.31	11.68
	4H	10.24	11.30	10.64	11.65	12.03	10.24	11.30	10.64	11.65	12.03
	6H	10.54	11.51	10.96	11.89	12.28	10.54	11.51	10.96	11.89	12.28
	8H	10.65	11.57	11.08	11.96	12.36	10.65	11.57	11.08	11.96	12.36
	12H	10.72	11.59	11.15	11.98	12.41	10.72	11.59	11.15	11.98	12.41
4H	2H	9.08	10.14	9.49	10.49	10.88	9.08	10.14	9.49	10.49	10.88
	3H	10.37	11.23	10.78	11.63	12.04	10.37	11.23	10.78	11.63	12.04
	4H	10.88	11.65	11.32	12.07	12.51	10.88	11.65	11.32	12.07	12.51
	6H	11.31	11.97	11.77	12.42	12.88	11.31	11.97	11.77	12.42	12.88
	8H	11.45	12.07	11.92	12.52	12.99	11.45	12.07	11.92	12.52	12.99
	12H	11.56	12.11	12.05	12.59	13.07	11.56	12.11	12.05	12.59	13.07
8H	4H	11.04	11.66	11.51	12.10	12.57	11.04	11.66	11.51	12.10	12.57
	6H	11.57	12.08	12.07	12.57	13.05	11.57	12.08	12.07	12.57	13.05
	8H	11.79	12.24	12.31	12.76	13.25	11.79	12.24	12.31	12.76	13.25
	12H	11.97	12.38	12.49	12.87	13.44	11.97	12.38	12.49	12.87	13.44
12H	4H	11.03	11.58	11.52	12.06	12.54	11.03	11.58	11.52	12.06	12.54
	6H	11.59	12.04	12.11	12.56	13.05	11.59	12.04	12.11	12.56	13.05
	8H	11.86	12.26	12.37	12.76	13.33	11.86	12.26	12.37	12.76	13.33