

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: P866954

Luminaire Tested: PRLX-2002-L-927-32L-G-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866954
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-927-32L-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 2
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

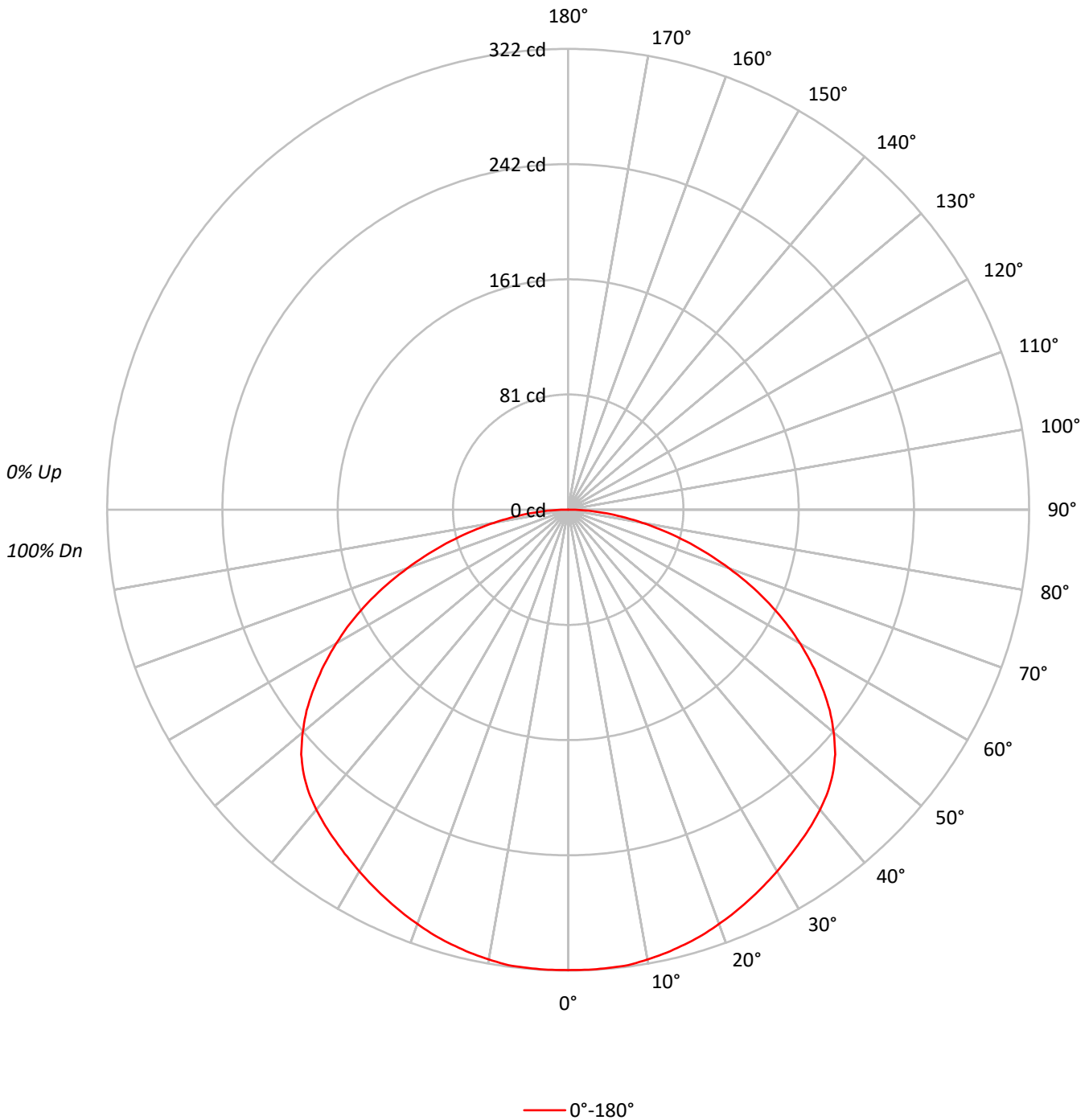
Lumens per Lamp: N/A
Luminaire Lumens: 1100.3 lumens
Efficiency: N/A
Efficacy: 42.2 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 26.1
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°	1587
5°	1592
10°	1599
15°	1606
20°	1617
25°	1635
30°	1662
35°	1705
40°	1763
45°	1823
50°	1858
55°	1863
60°	1846
65°	1807
70°	1722
75°	1620
80°	1492
85°	1376

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 1867 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.6	2.8
10°-20°	88.9	8.1
20°-30°	138.7	12.6
30°-40°	177.5	16.1
40°-50°	201.1	18.3
50°-60°	193.3	17.6
60°-70°	152.7	13.9
70°-80°	90.0	8.2
80°-90°	27.4	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
0°-30°	258.3	23.5
0°-40°	435.8	39.6
0°-60°	830.1	75.4
0°-90°	1100.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1100.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	322	
5°	322	31
15°	314	89
25°	300	139
35°	283	178
45°	261	201
55°	217	193
65°	155	153
75°	85	90
85°	24	27
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	321.7
2.5°	321.7
5°	321.5
7.5°	321.0
10°	319.1
12.5°	317.1
15°	314.5
17.5°	311.7
20°	308.0
22.5°	304.4
25°	300.3
27.5°	296.1
30°	291.8
32.5°	287.4
35°	283.0
37.5°	278.6
40°	273.7
42.5°	268.2
45°	261.3
47.5°	253.0
50°	242.1
52.5°	230.3
55°	216.6
57.5°	202.3
60°	187.1
62.5°	171.6
65°	154.8
67.5°	137.5
70°	119.4
72.5°	102.3
75°	85.0
77.5°	68.2
80°	52.5
82.5°	37.7
85°	24.3
87.5°	12.4
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	14.61	16.31	14.97	16.63	16.94	14.61	16.31	14.97	16.63	16.94
	3H	16.52	18.07	16.90	18.40	18.76	16.52	18.07	16.90	18.40	18.76
	4H	17.25	18.71	17.64	19.06	19.43	17.25	18.71	17.64	19.06	19.43
	6H	17.79	19.15	18.20	19.52	19.91	17.79	19.15	18.20	19.52	19.91
	8H	17.98	19.28	18.40	19.67	20.07	17.98	19.28	18.40	19.67	20.07
	12H	18.12	19.37	18.55	19.75	20.17	18.12	19.37	18.55	19.75	20.17
4H	2H	15.29	16.76	15.69	17.10	17.48	15.29	16.76	15.69	17.10	17.48
	3H	17.42	18.66	17.83	19.05	19.45	17.42	18.66	17.83	19.05	19.45
	4H	18.28	19.40	18.71	19.81	20.24	18.28	19.40	18.71	19.81	20.24
	6H	18.96	19.94	19.41	20.38	20.83	18.96	19.94	19.41	20.38	20.83
	8H	19.20	20.12	19.65	20.56	21.02	19.20	20.12	19.65	20.56	21.02
	12H	19.39	20.22	19.86	20.69	21.16	19.39	20.22	19.86	20.69	21.16
8H	4H	18.62	19.54	19.08	19.98	20.45	18.62	19.54	19.08	19.98	20.45
	6H	19.43	20.20	19.92	20.69	21.16	19.43	20.20	19.92	20.69	21.16
	8H	19.75	20.44	20.26	20.95	21.43	19.75	20.44	20.26	20.95	21.43
	12H	20.03	20.64	20.53	21.13	21.69	20.03	20.64	20.53	21.13	21.69
12H	4H	18.67	19.50	19.14	19.97	20.44	18.67	19.50	19.14	19.97	20.44
	6H	19.50	20.20	20.01	20.70	21.18	19.50	20.20	20.01	20.70	21.18
	8H	19.89	20.50	20.39	20.99	21.55	19.89	20.50	20.39	20.99	21.55