

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: P866953

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866953
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-69)
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-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

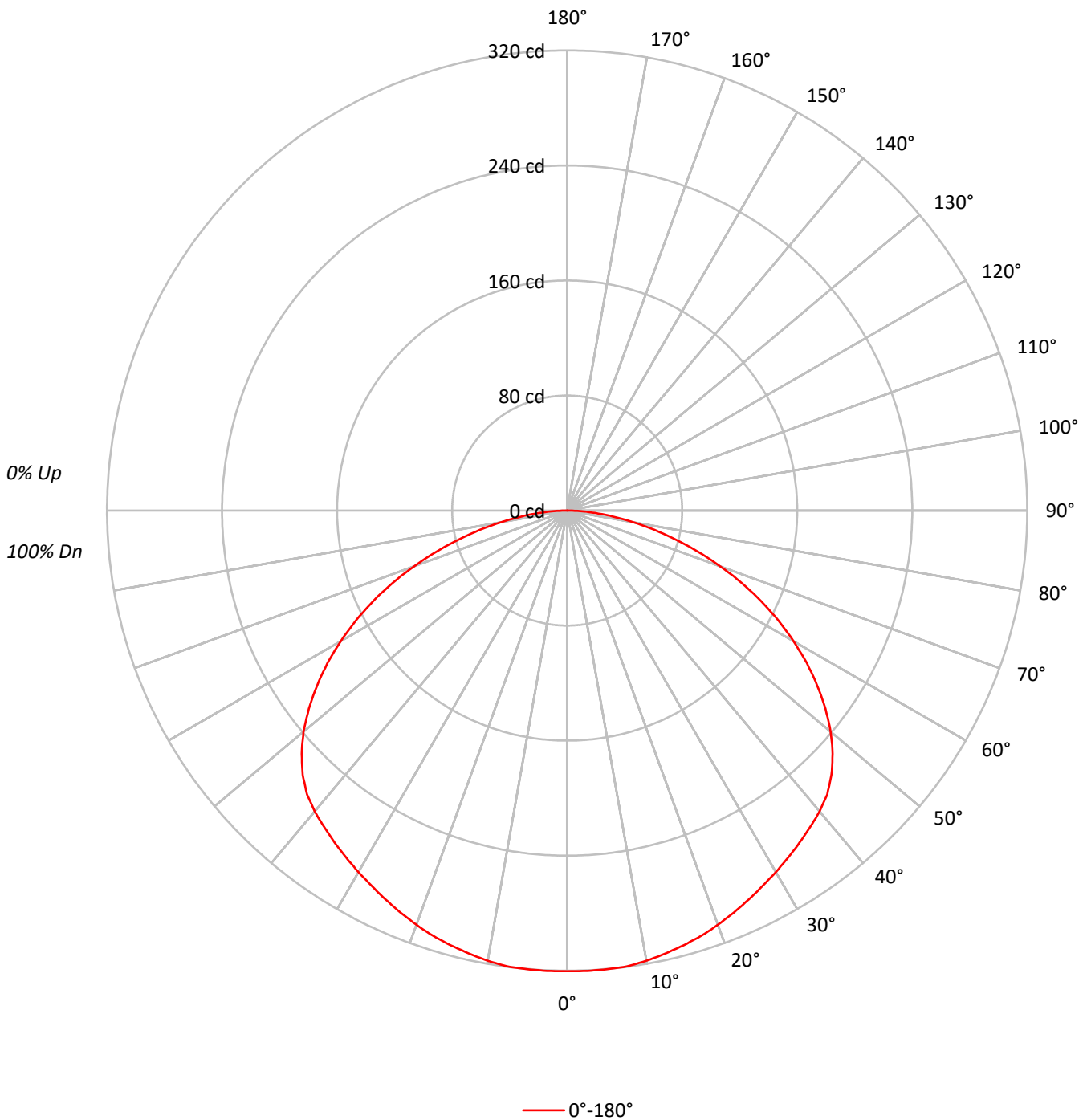
Lumens per Lamp: N/A
Luminaire Lumens: 1076.3 lumens
Efficiency: N/A
Efficacy: 41.2 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 26.1
Input Voltage (V): 120
Input Current (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	72		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	65	60		68	63	59	56
4	81	68	59	52	79	67	59	52	65	57	51		62	56	50		60	54	50	48
5	74	61	51	45	72	60	51	44	58	50	44		55	49	43		54	48	43	41
6	68	54	45	39	66	54	45	38	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33		45	38	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		41	34	29		40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	27		38	31	26		37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24		35	28	24		34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1581
5°	1586
10°	1593
15°	1598
20°	1609
25°	1625
30°	1653
35°	1698
40°	1759
45°	1814
50°	1837
55°	1827
60°	1795
65°	1737
70°	1633
75°	1498
80°	1335
85°	1098

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 1837 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.5	2.8
10°-20°	88.5	8.2
20°-30°	137.9	12.8
30°-40°	176.8	16.4
40°-50°	199.9	18.6
50°-60°	189.5	17.6
60°-70°	146.8	13.6
70°-80°	83.5	7.8
80°-90°	22.9	2.1
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°	256.9	23.9
0°-40°	433.7	40.3
0°-60°	823.1	76.5
0°-90°	1076.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1076.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	320	
5°	320	31
15°	313	88
25°	298	138
35°	282	177
45°	260	200
55°	212	190
65°	149	147
75°	79	83
85°	19	23
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	320.4
2.5°	320.4
5°	320.2
7.5°	319.7
10°	317.9
12.5°	315.5
15°	312.9
17.5°	310.1
20°	306.5
22.5°	302.6
25°	298.5
27.5°	294.3
30°	290.2
32.5°	286.1
35°	281.9
37.5°	277.5
40°	273.1
42.5°	267.7
45°	260.0
47.5°	250.4
50°	239.3
52.5°	226.4
55°	212.4
57.5°	197.7
60°	181.9
62.5°	165.6
65°	148.8
67.5°	131.3
70°	113.2
72.5°	95.6
75°	78.6
77.5°	62.3
80°	47.0
82.5°	32.6
85°	19.4
87.5°	8.8
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	14.54	16.23	14.90	16.55	16.86	14.54	16.23	14.90	16.55	16.86
	3H	16.38	17.91	16.75	18.24	18.60	16.38	17.91	16.75	18.24	18.60
	4H	17.04	18.50	17.44	18.84	19.22	17.04	18.50	17.44	18.84	19.22
	6H	17.53	18.88	17.94	19.24	19.63	17.53	18.88	17.94	19.24	19.63
	8H	17.69	18.98	18.11	19.36	19.76	17.69	18.98	18.11	19.36	19.76
	12H	17.79	19.02	18.22	19.40	19.83	17.79	19.02	18.22	19.40	19.83
4H	2H	15.20	16.65	15.60	17.00	17.37	15.20	16.65	15.60	17.00	17.37
	3H	17.25	18.47	17.66	18.87	19.26	17.25	18.47	17.66	18.87	19.26
	4H	18.04	19.15	18.47	19.56	20.00	18.04	19.15	18.47	19.56	20.00
	6H	18.66	19.63	19.11	20.06	20.52	18.66	19.63	19.11	20.06	20.52
	8H	18.86	19.77	19.32	20.21	20.67	18.86	19.77	19.32	20.21	20.67
	12H	19.00	19.82	19.48	20.29	20.76	19.00	19.82	19.48	20.29	20.76
8H	4H	18.36	19.27	18.82	19.71	20.17	18.36	19.27	18.82	19.71	20.17
	6H	19.09	19.85	19.58	20.34	20.81	19.09	19.85	19.58	20.34	20.81
	8H	19.37	20.05	19.87	20.55	21.03	19.37	20.05	19.87	20.55	21.03
	12H	19.58	20.18	20.08	20.67	21.23	19.58	20.18	20.08	20.67	21.23
12H	4H	18.40	19.22	18.88	19.69	20.16	18.40	19.22	18.88	19.69	20.16
	6H	19.15	19.83	19.66	20.34	20.82	19.15	19.83	19.66	20.34	20.82
	8H	19.48	20.08	19.99	20.57	21.13	19.48	20.08	19.99	20.57	21.13