

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: P866952

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866952
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-71)
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-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

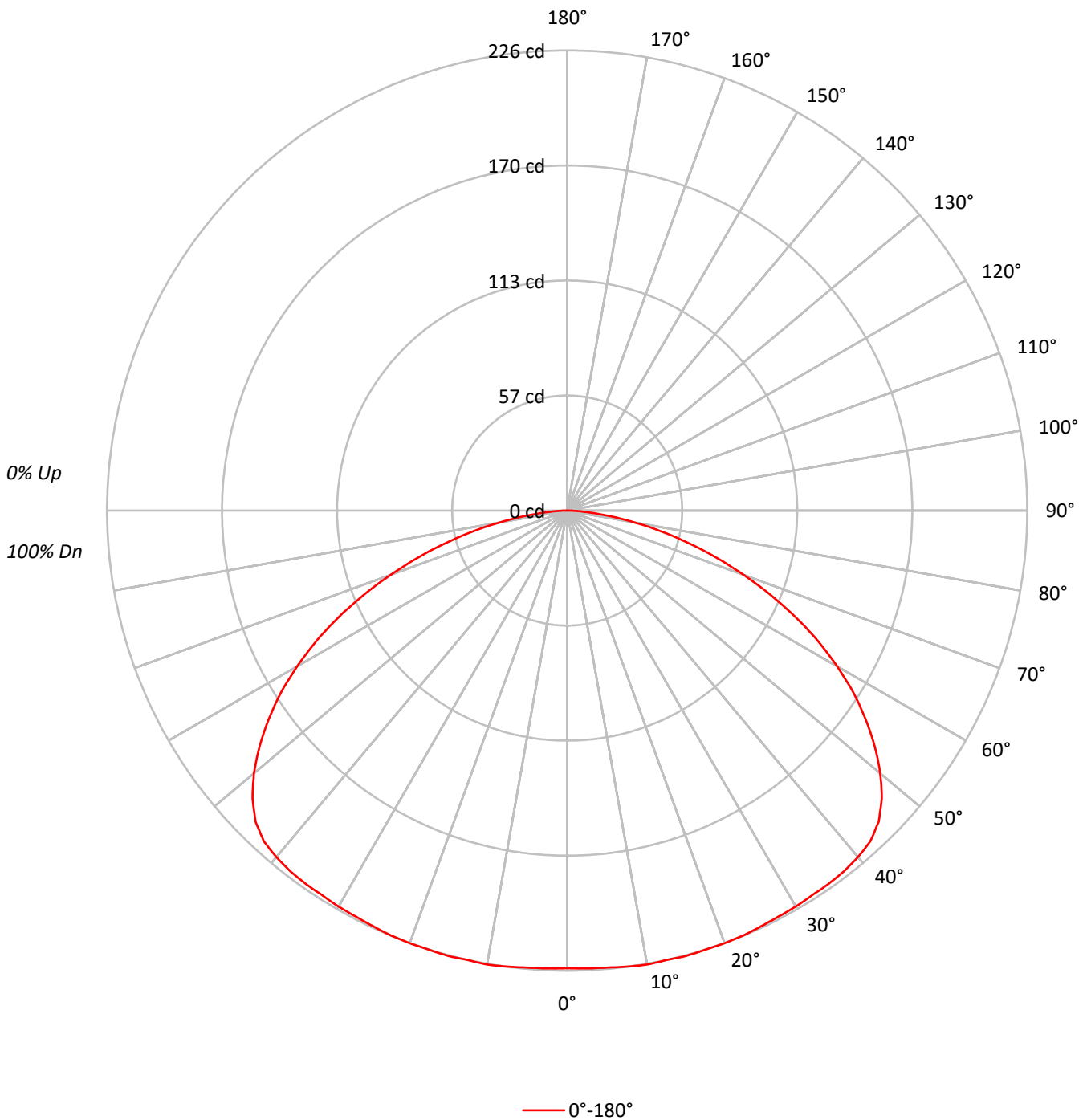
Lumens per Lamp: N/A
Luminaire Lumens: 858.1 lumens
Efficiency: N/A
Efficacy: 32.9 lumens/watt
Spacing Criteria (0/90/45): 1.52 / 1.52 / 1.65
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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	71		77	73	70	68
3	89	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	56	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	44	38	66	53	44	37	51	43	37		49	42	37		48	41	36	34
7	63	48	39	33	61	48	39	33	46	38	32		44	37	32		43	37	32	30
8	58	44	35	29	56	43	35	29	42	34	29		41	34	28		39	33	28	26
9	54	40	32	26	53	39	31	26	38	31	26		37	30	25		36	30	25	23
10	50	37	29	23	49	36	28	23	35	28	23		34	28	23		33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1109
5°	1116
10°	1134
15°	1156
20°	1187
25°	1227
30°	1280
35°	1348
40°	1431
45°	1509
50°	1541
55°	1541
60°	1512
65°	1445
70°	1327
75°	1178
80°	963
85°	645

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 1544 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.5	2.5
10°-20°	64.1	7.5
20°-30°	104.3	12.2
30°-40°	140.5	16.4
40°-50°	165.9	19.3
50°-60°	159.6	18.6
60°-70°	122.1	14.2
70°-80°	65.6	7.6
80°-90°	14.6	1.7
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°	189.9	22.1
0°-40°	330.4	38.5
0°-60°	655.9	76.4
0°-90°	858.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	858.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	225	
5°	225	22
15°	226	64
25°	225	104
35°	224	140
45°	216	166
55°	179	160
65°	124	122
75°	62	66
85°	11	15
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	224.8
2.5°	225.1
5°	225.3
7.5°	225.9
10°	226.4
12.5°	226.1
15°	226.4
17.5°	226.1
20°	226.1
22.5°	225.9
25°	225.3
27.5°	224.8
30°	224.6
32.5°	224.0
35°	223.8
37.5°	223.3
40°	222.2
42.5°	220.4
45°	216.3
47.5°	209.6
50°	200.8
52.5°	190.5
55°	179.1
57.5°	166.9
60°	153.2
62.5°	139.0
65°	123.8
67.5°	108.0
70°	92.0
72.5°	76.8
75°	61.8
77.5°	47.3
80°	33.9
82.5°	21.4
85°	11.4
87.5°	3.9
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	14.12	15.84	14.49	16.15	16.46	14.12	15.84	14.49	16.15	16.46
	3H	15.87	17.43	16.25	17.75	18.11	15.87	17.43	16.25	17.75	18.11
	4H	16.48	17.95	16.88	18.29	18.67	16.48	17.95	16.88	18.29	18.67
	6H	16.88	18.24	17.29	18.60	18.99	16.88	18.24	17.29	18.60	18.99
	8H	16.98	18.28	17.40	18.67	19.07	16.98	18.28	17.40	18.67	19.07
	12H	17.03	18.28	17.46	18.66	19.09	17.03	18.28	17.46	18.66	19.09
4H	2H	14.77	16.24	15.17	16.58	16.96	14.77	16.24	15.17	16.58	16.96
	3H	16.73	17.96	17.13	18.35	18.75	16.73	17.96	17.13	18.35	18.75
	4H	17.45	18.56	17.88	18.98	19.41	17.45	18.56	17.88	18.98	19.41
	6H	17.96	18.93	18.41	19.37	19.82	17.96	18.93	18.41	19.37	19.82
	8H	18.09	19.00	18.55	19.45	19.91	18.09	19.00	18.55	19.45	19.91
	12H	18.17	18.99	18.65	19.47	19.94	18.17	18.99	18.65	19.47	19.94
8H	4H	17.73	18.65	18.19	19.09	19.55	17.73	18.65	18.19	19.09	19.55
	6H	18.34	19.10	18.83	19.58	20.05	18.34	19.10	18.83	19.58	20.05
	8H	18.52	19.20	19.03	19.71	20.19	18.52	19.20	19.03	19.71	20.19
	12H	18.65	19.25	19.15	19.74	20.30	18.65	19.25	19.15	19.74	20.30
12H	4H	17.76	18.58	18.24	19.06	19.52	17.76	18.58	18.24	19.06	19.52
	6H	18.37	19.05	18.88	19.56	20.04	18.37	19.05	18.88	19.56	20.04
	8H	18.60	19.20	19.11	19.69	20.25	18.60	19.20	19.11	19.69	20.25