

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: P865572

Luminaire Tested: PRLX-2002-S-927-05L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865572
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-S-927-05L-G-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

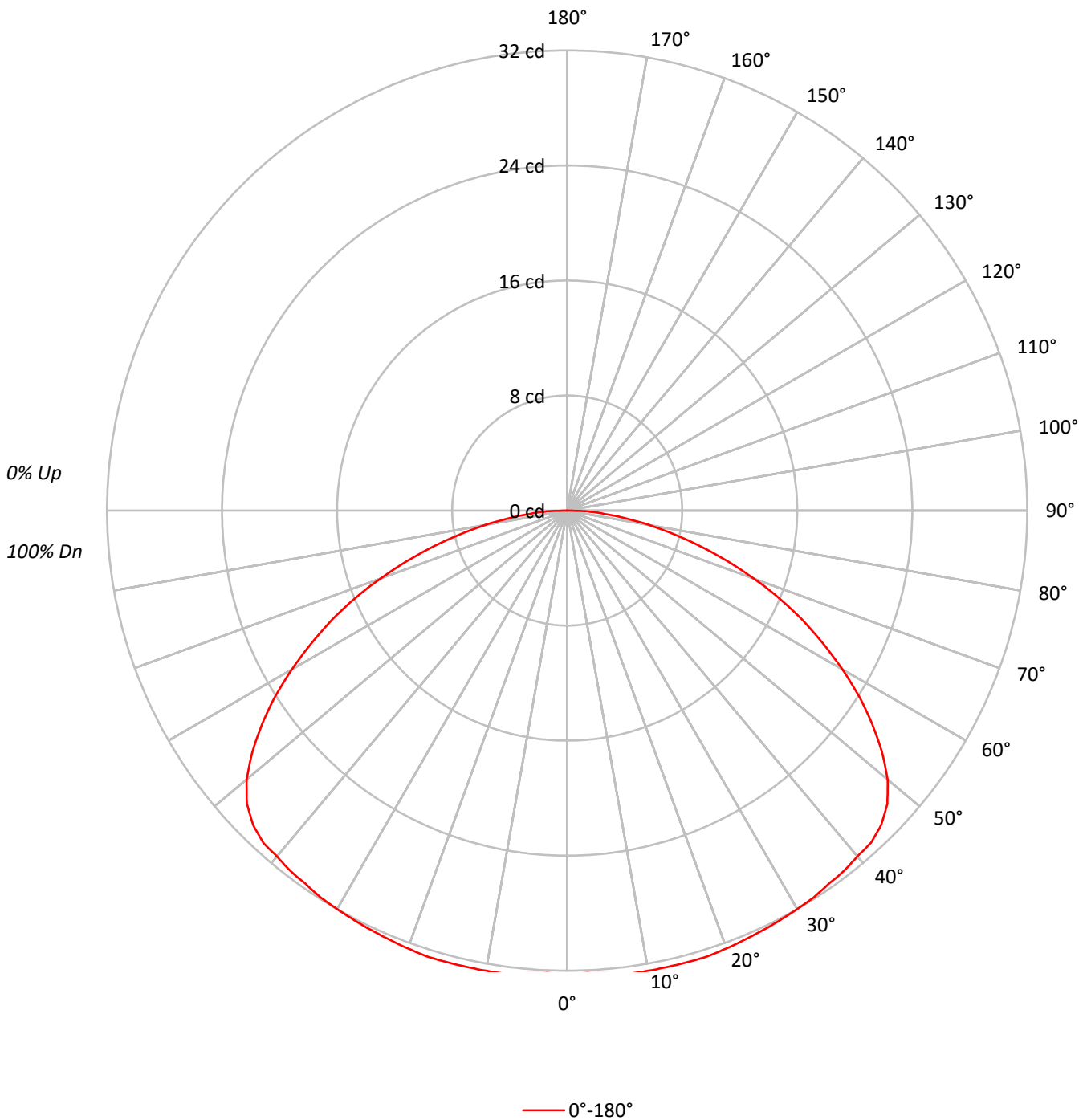
Lumens per Lamp: N/A
Luminaire Lumens: 125.0 lumens
Efficiency: N/A
Efficacy: 20.2 lumens/watt
Spacing Criteria (0/90/45): 1.51 / 1.51 / 1.65
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 6.2
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: 0.333 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	108	103	98	94	105	100	96	92	96	93	89		92	89	87		89	86	84	82
2	97	88	81	75	95	87	80	74	83	77	72		80	75	71		77	73	69	67
3	88	77	68	61	86	75	67	61	72	65	59		69	63	58		67	62	57	55
4	80	67	58	51	78	66	57	51	63	56	50		61	54	49		59	53	48	46
5	73	60	50	43	71	58	50	43	56	48	42		54	47	42		52	46	41	39
6	67	53	44	37	65	52	43	37	50	42	37		49	42	36		47	41	36	34
7	62	48	39	32	60	47	38	32	46	38	32		44	37	32		43	36	31	29
8	58	43	35	28	56	43	34	28	41	34	28		40	33	28		39	33	28	26
9	54	40	31	25	52	39	31	25	38	30	25		37	30	25		36	29	25	23
10	50	36	28	23	49	36	28	23	35	28	23		34	27	22		33	27	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	605
5°	609
10°	620
15°	632
20°	648
25°	667
30°	694
35°	727
40°	770
45°	821
50°	850
55°	848
60°	830
65°	804
70°	758
75°	697
80°	627
85°	560

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 852 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	2.5
10°-20°	9.2	7.4
20°-30°	14.9	11.9
30°-40°	19.9	15.9
40°-50°	23.7	19.0
50°-60°	23.1	18.5
60°-70°	17.9	14.3
70°-80°	10.2	8.2
80°-90°	3.0	2.4
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°	27.2	21.8
0°-40°	47.1	37.7
0°-60°	93.9	75.2
0°-90°	125.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	125.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	32	
5°	32	3
15°	32	9
25°	32	15
35°	32	20
45°	31	24
55°	26	23
65°	18	18
75°	10	10
85°	3	3
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	32.2
2.5°	32.2
5°	32.3
7.5°	32.5
10°	32.5
12.5°	32.5
15°	32.5
17.5°	32.5
20°	32.4
22.5°	32.3
25°	32.2
27.5°	32.1
30°	32.0
32.5°	31.9
35°	31.7
37.5°	31.6
40°	31.4
42.5°	31.3
45°	30.9
47.5°	30.2
50°	29.1
52.5°	27.6
55°	25.9
57.5°	24.1
60°	22.1
62.5°	20.1
65°	18.1
67.5°	16.0
70°	13.8
72.5°	11.7
75°	9.6
77.5°	7.6
80°	5.8
82.5°	4.1
85°	2.6
87.5°	1.4
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	12.00	13.72	12.36	14.04	14.35	12.00	13.72	12.36	14.04	14.35
	3H	13.84	15.41	14.21	15.73	16.09	13.84	15.41	14.21	15.73	16.09
	4H	14.51	15.99	14.91	16.34	16.71	14.51	15.99	14.91	16.34	16.71
	6H	15.01	16.38	15.41	16.74	17.13	15.01	16.38	15.41	16.74	17.13
	8H	15.17	16.49	15.59	16.87	17.27	15.17	16.49	15.59	16.87	17.27
	12H	15.29	16.55	15.72	16.93	17.36	15.29	16.55	15.72	16.93	17.36
4H	2H	12.66	14.14	13.06	14.49	14.86	12.66	14.14	13.06	14.49	14.86
	3H	14.71	15.96	15.12	16.36	16.76	14.71	15.96	15.12	16.36	16.76
	4H	15.51	16.65	15.94	17.06	17.49	15.51	16.65	15.94	17.06	17.49
	6H	16.14	17.13	16.59	17.57	18.02	16.14	17.13	16.59	17.57	18.02
	8H	16.35	17.28	16.81	17.72	18.19	16.35	17.28	16.81	17.72	18.19
	12H	16.52	17.36	17.00	17.83	18.30	16.52	17.36	17.00	17.83	18.30
8H	4H	15.84	16.77	16.30	17.21	17.67	15.84	16.77	16.30	17.21	17.67
	6H	16.58	17.36	17.07	17.85	18.32	16.58	17.36	17.07	17.85	18.32
	8H	16.87	17.57	17.38	18.08	18.56	16.87	17.57	17.38	18.08	18.56
	12H	17.12	17.74	17.62	18.23	18.78	17.12	17.74	17.62	18.23	18.78
12H	4H	15.88	16.72	16.36	17.19	17.66	15.88	16.72	16.36	17.19	17.66
	6H	16.65	17.35	17.15	17.85	18.33	16.65	17.35	17.15	17.85	18.33
	8H	17.00	17.62	17.50	18.10	18.66	17.00	17.62	17.50	18.10	18.66