

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: P865888

Luminaire Tested: PRLX-2004-S-940-25L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865888
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-S-940-25L-L-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, FLAT LENS, BELL WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

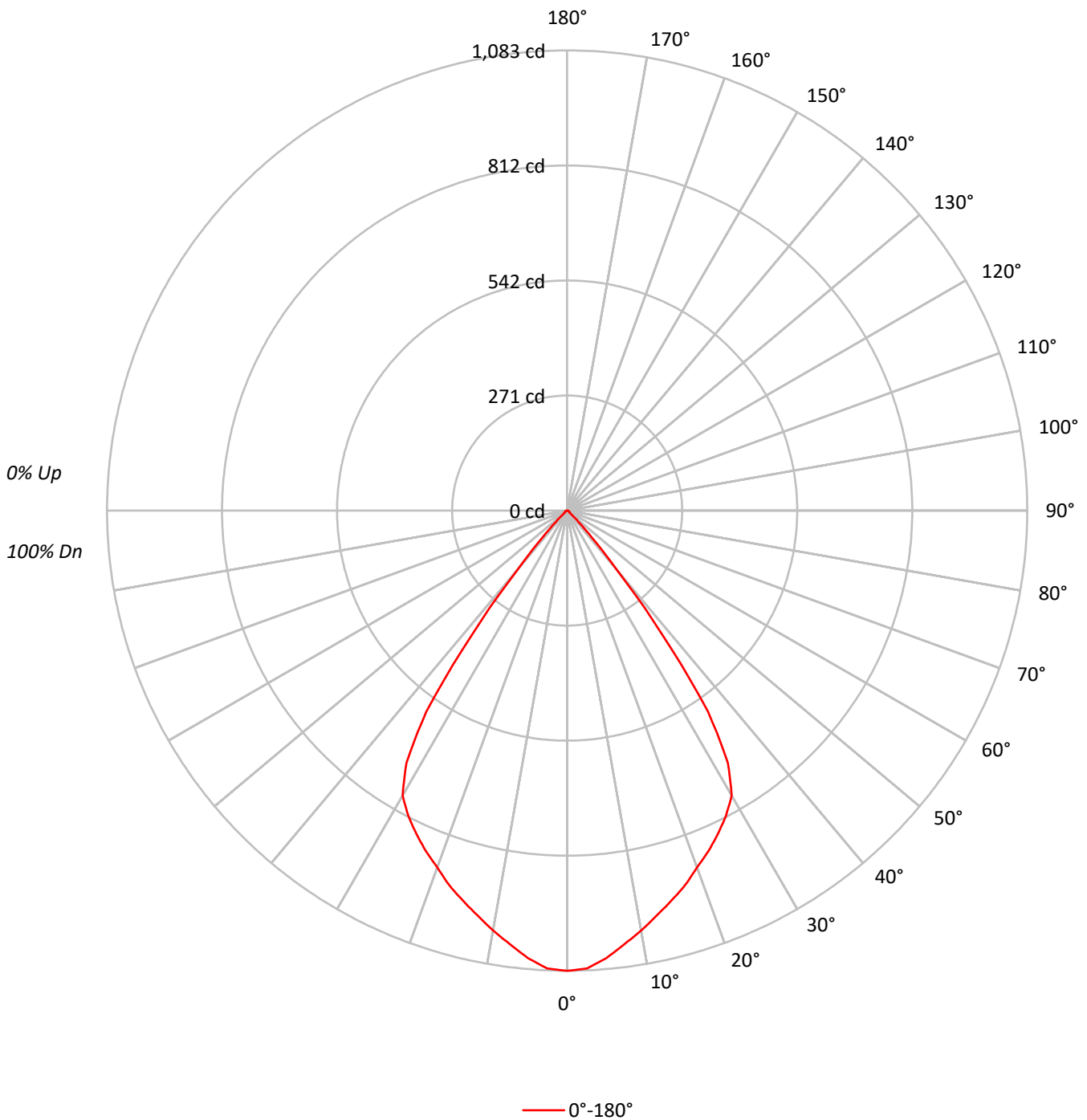
Lumens per Lamp: N/A
Luminaire Lumens: 1135.0 lumens
Efficiency: N/A
Efficacy: 39.0 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.02
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 29.1
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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	98	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80
4	97	89	83	79	95	88	82	78	86	81	77	84	80	77	82	78	76	74
5	91	83	77	72	90	82	76	72	80	75	72	78	74	71	77	73	70	69
6	87	78	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64
7	82	73	66	62	81	72	66	62	71	65	62	69	65	61	68	64	61	59
8	78	68	62	58	77	67	62	58	66	61	57	65	61	57	64	60	57	55
9	74	64	58	54	73	63	58	54	63	57	53	62	57	53	61	56	53	52
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	57	53	50	48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	17665
5°	17312
10°	16621
15°	16038
20°	15510
25°	15113
30°	14583
35°	11505
40°	3835
45°	863
50°	239
55°	199
60°	153
65°	181
70°	110
75°	145
80°	216
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 863 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.1	8.7
10°-20°	267.6	23.6
20°-30°	386.2	34.0
30°-40°	326.3	28.7
40°-50°	42.4	3.7
50°-60°	6.3	0.6
60°-70°	4.4	0.4
70°-80°	2.4	0.2
80°-90°	0.3	0.0
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°	752.9	66.3
0°-40°	1079.2	95.1
0°-60°	1127.9	99.4
0°-90°	1135.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1135.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1083	
5°	1057	99
15°	950	268
25°	840	386
35°	578	326
45°	37	42
55°	7	6
65°	5	4
75°	2	2
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1083.1
2.5°	1078.5
5°	1057.4
7.5°	1029.3
10°	1003.6
12.5°	975.5
15°	949.8
17.5°	924.1
20°	893.6
22.5°	867.9
25°	839.8
27.5°	809.4
30°	774.3
32.5°	704.2
35°	577.8
37.5°	367.3
40°	180.1
42.5°	84.2
45°	37.4
47.5°	11.7
50°	9.4
52.5°	7.0
55°	7.0
57.5°	7.0
60°	4.7
62.5°	4.7
65°	4.7
67.5°	4.7
70°	2.3
72.5°	2.3
75°	2.3
77.5°	2.3
80°	2.3
82.5°	0.0
85°	0.0
87.5°	0.0
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.09
	8H	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.10
	12H	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.02
4H	2H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.40	0.87	0.00	0.00	0.00	0.40	0.87
	8H	0.00	0.00	0.00	0.38	0.86	0.00	0.00	0.00	0.38	0.86
	12H	0.00	0.00	0.00	0.29	0.77	0.00	0.00	0.00	0.29	0.77
8H	4H	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.03
	6H	0.00	0.24	0.41	0.75	1.23	0.00	0.24	0.41	0.75	1.23
	8H	0.00	0.22	0.45	0.74	1.24	0.00	0.22	0.45	0.74	1.24
	12H	0.00	0.12	0.38	0.62	1.20	0.00	0.12	0.38	0.62	1.20
12H	4H	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.05
	6H	0.00	0.22	0.45	0.75	1.24	0.00	0.22	0.45	0.75	1.24
	8H	0.00	0.21	0.47	0.71	1.29	0.00	0.21	0.47	0.71	1.29