

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: PORTFOLIO

Report Number: P749324

Luminaire Tested: LD4D50D010-EU4DR4540509024-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749324
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D50D010-EU4DR4540509024-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4459.7 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

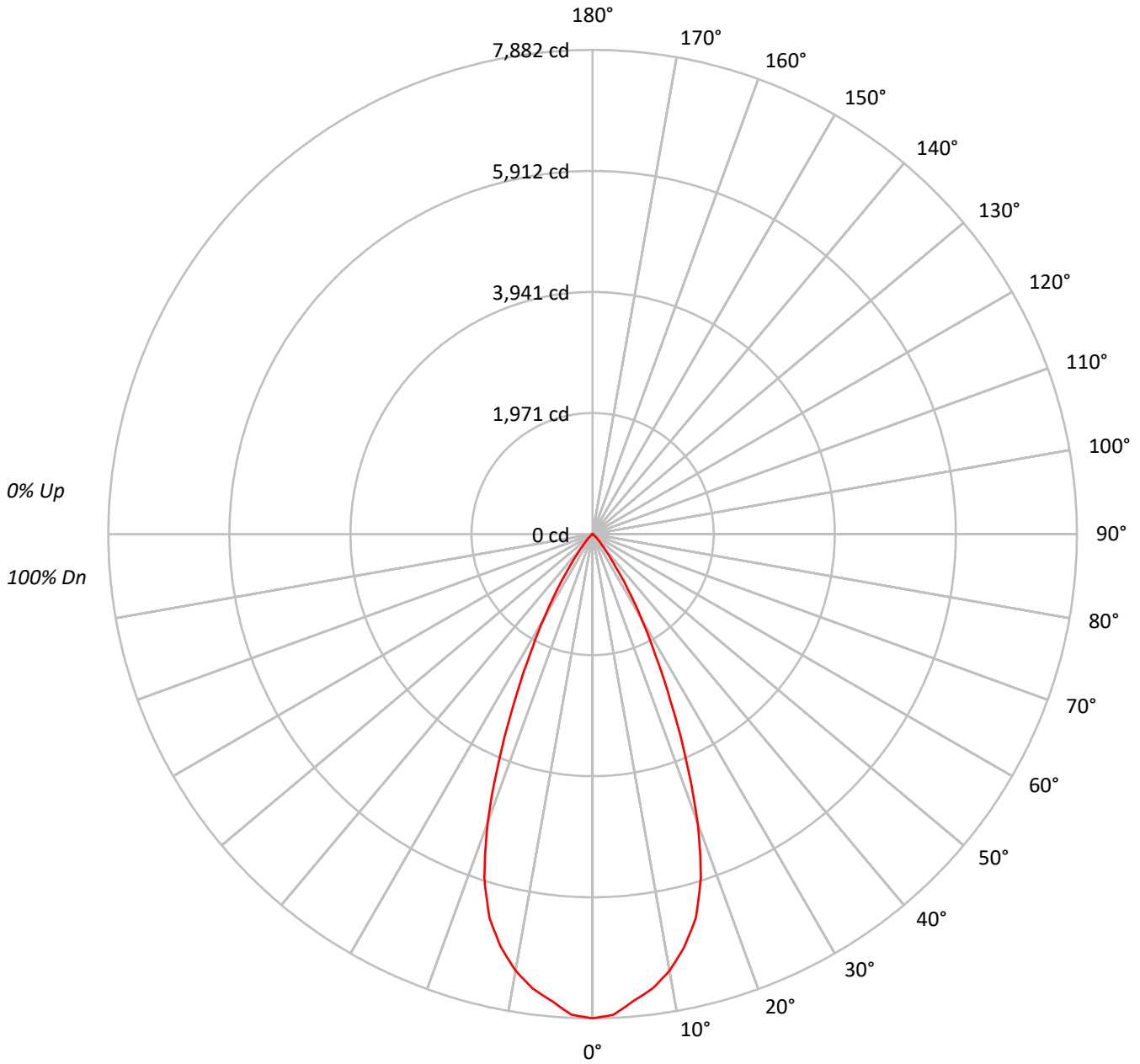
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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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	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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	95			
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	90			
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	89	87	85			
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81			
5	96	89	84	80	95	88	83	80	86	82	79	85	81	79	83	80	78	77			
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	73			
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69			
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66			
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63			
10	79	70	65	62	78	70	65	62	69	65	62	68	64	61	68	64	61	60			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	861248
5°	836734
10°	800522
15°	732646
20°	581248
25°	362873
30°	200007
35°	89807
40°	35372
45°	16672
50°	7904
55°	4134
60°	2032
65°	491
70°	192
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16672 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	716.8	16.1
10°-20°	1764.2	39.6
20°-30°	1397.0	31.3
30°-40°	465.2	10.4
40°-50°	92.3	2.1
50°-60°	21.0	0.5
60°-70°	3.0	0.1
70°-80°	0.1	0.0
80°-90°	0.0	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°	3878.0	87.0
0°-40°	4343.3	97.4
0°-60°	4456.6	99.9
0°-90°	4459.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4459.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7882	
5°	7629	717
15°	6477	1764
25°	3010	1397
35°	673	465
45°	108	92
55°	22	21
65°	2	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7882.5
2.5°	7831.1
5°	7629.0
7.5°	7462.2
10°	7215.4
12.5°	6886.8
15°	6477.0
17.5°	5860.7
20°	4999.0
22.5°	3972.3
25°	3010.0
27.5°	2204.1
30°	1585.3
32.5°	1078.2
35°	673.3
37.5°	399.3
40°	248.0
42.5°	163.1
45°	107.9
47.5°	69.4
50°	46.5
52.5°	31.0
55°	21.7
57.5°	14.3
60°	9.3
62.5°	5.0
65°	1.9
67.5°	0.6
70°	0.6
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)