

Signify Classified - Internal
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: PORTFOLIO

Report Number: P749556

Luminaire Tested: LD4D50D010-EU4DR6040509024-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P749556
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D50D010-EU4DR6040509024-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3274.8 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

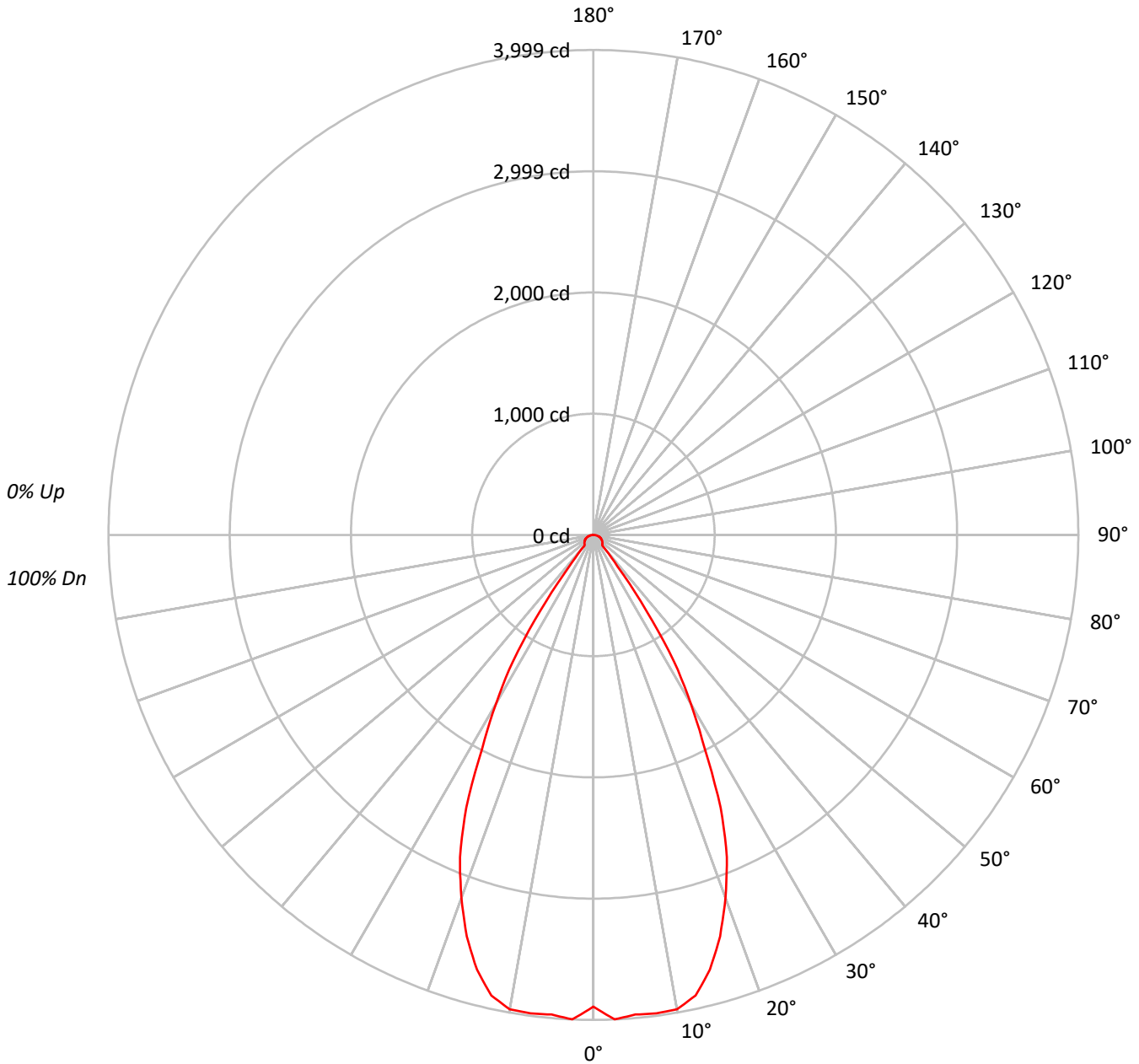
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P749556
CATALOG NUMBER: LD4D50D010-EU4DR6040509024-4LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P749556

CATALOG NUMBER: LD4D50D010-EU4DR6040509024-4LBDP1B

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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93		
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86		
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80		
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75		
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70		
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66		
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62		
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59		
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55		
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	424948
5°	435400
10°	440656
15°	419781
20°	370120
25°	299364
30°	202492
35°	101464
40°	16459
45°	16116
50°	16437
55°	16687
60°	17154
65°	17529
70°	17953
75°	18152
80°	17492
85°	14542

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 18152 cd/sqm



TEST NUMBER: P749556

CATALOG NUMBER: LD4D50D010-EU4DR6040509024-4LBDP1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.4	11.6
10°-20°	1026.5	31.3
20°-30°	1104.4	33.7
30°-40°	480.1	14.7
40°-50°	80.6	2.5
50°-60°	78.4	2.4
60°-70°	67.1	2.0
70°-80°	44.9	1.4
80°-90°	13.4	0.4
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°	2510.4	76.7
0°-40°	2990.4	91.3
0°-60°	3149.5	96.2
0°-90°	3274.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3274.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3889	
5°	3970	379
15°	3711	1027
25°	2483	1104
35°	761	480
45°	104	81
55°	88	78
65°	68	67
75°	43	45
85°	12	13
90°	0	



TEST NUMBER: P749556

CATALOG NUMBER: LD4D50D010-EU4DR6040509024-4LBDP1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	3889.3
2.5°	3998.6
5°	3969.8
7.5°	3978.9
10°	3971.8
12.5°	3889.8
15°	3711.1
17.5°	3471.2
20°	3183.2
22.5°	2875.0
25°	2483.2
27.5°	1986.1
30°	1605.0
32.5°	1237.0
35°	760.7
37.5°	325.5
40°	115.4
42.5°	106.3
45°	104.3
47.5°	100.7
50°	96.7
52.5°	92.1
55°	87.6
57.5°	83.0
60°	78.5
62.5°	73.4
65°	67.8
67.5°	62.3
70°	56.2
72.5°	49.6
75°	43.0
77.5°	35.4
80°	27.8
82.5°	19.7
85°	11.6
87.5°	4.0
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

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

Scaled Data Report



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

Scaled Data Report



— 0°-180°

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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



(END OF REPORT)