

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: P749660

Luminaire Tested: LD4D50D010-EU4DR6540509030-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P749660
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D50D010-EU4DR6540509030-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3158.8 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

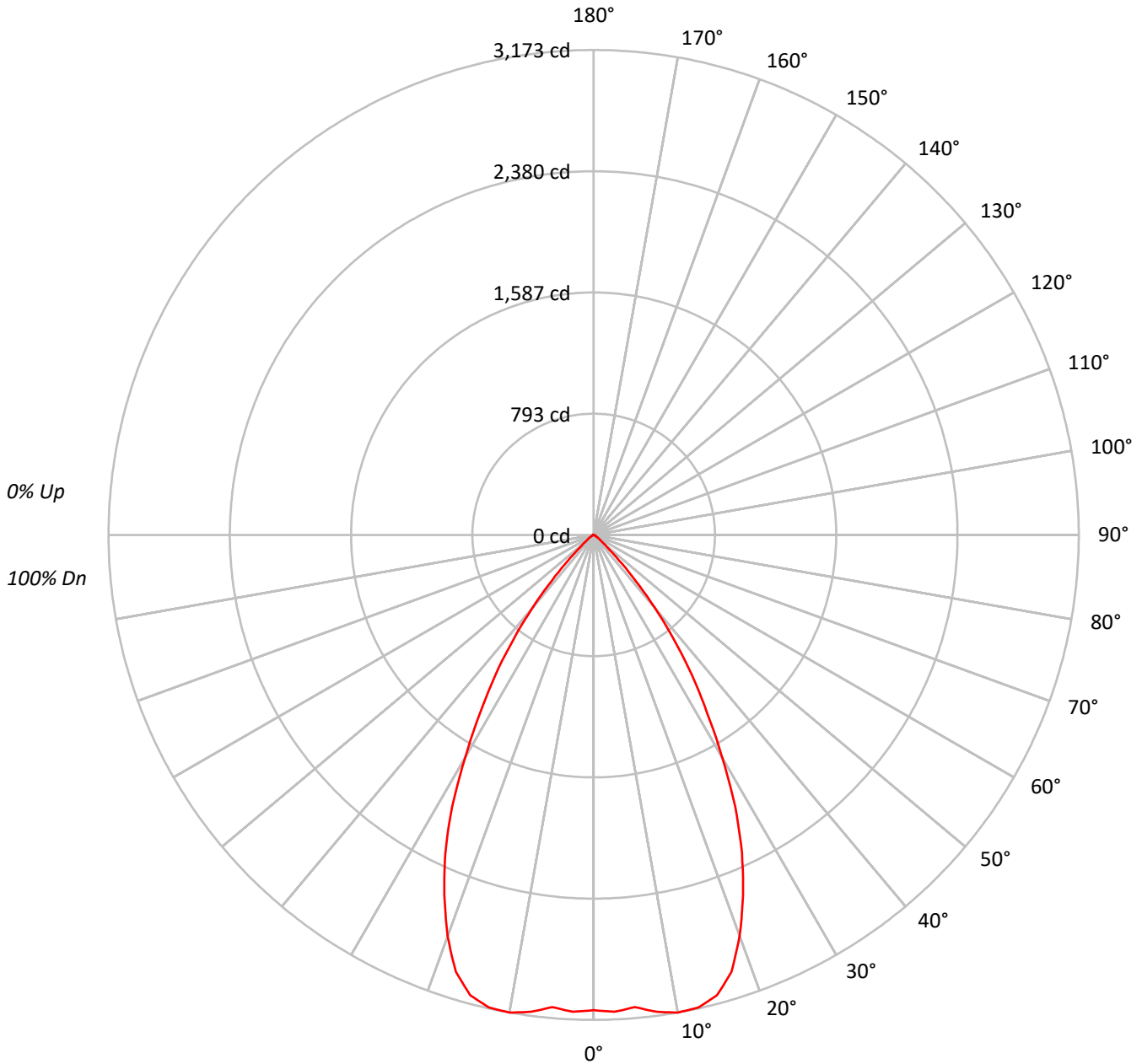
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P749660
CATALOG NUMBER: LD4D50D010-EU4DR6540509030-4LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P749660

CATALOG NUMBER: LD4D50D010-EU4DR6540509030-4LBDP1B

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	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93		
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87		
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80		
4	97	89	84	79	95	88	83	79	86	82	78	84	80	77	82	79	76	75		
5	92	83	78	73	90	83	77	73	81	76	72	79	75	72	77	74	71	69		
6	87	78	72	68	86	77	72	68	76	71	67	74	70	67	73	69	66	65		
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60		
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57		
9	75	65	59	55	74	65	59	55	64	58	55	63	58	55	62	58	54	53		
10	71	61	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51	50		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	339801
5°	340090
10°	352055
15°	352636
20°	324669
25°	276628
30°	211765
35°	149615
40°	88316
45°	35848
50°	13003
55°	7239
60°	4152
65°	2275
70°	2396
75°	1857
80°	1951
85°	1630

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 35848 cd/sqm



TEST NUMBER: P749660

CATALOG NUMBER: LD4D50D010-EU4DR6540509030-4LBDP1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.5	9.5
10°-20°	863.8	27.3
20°-30°	1036.4	32.8
30°-40°	696.5	22.1
40°-50°	208.5	6.6
50°-60°	36.8	1.2
60°-70°	10.5	0.3
70°-80°	5.1	0.2
80°-90°	1.6	0.1
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°	2199.7	69.6
0°-40°	2896.2	91.7
0°-60°	3141.6	99.5
0°-90°	3158.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3158.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3110	
5°	3101	299
15°	3118	864
25°	2295	1036
35°	1122	697
45°	232	209
55°	38	37
65°	9	10
75°	4	5
85°	1	2
90°	0	



TEST NUMBER: P749660

CATALOG NUMBER: LD4D50D010-EU4DR6540509030-4LBDP1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	3110.0
2.5°	3123.3
5°	3100.8
7.5°	3147.6
10°	3173.2
12.5°	3167.0
15°	3117.5
17.5°	2996.5
20°	2792.3
22.5°	2551.8
25°	2294.6
27.5°	2004.3
30°	1678.5
32.5°	1383.3
35°	1121.7
37.5°	863.1
40°	619.2
42.5°	404.4
45°	232.0
47.5°	122.9
50°	76.5
52.5°	53.0
55°	38.0
57.5°	27.4
60°	19.0
62.5°	12.4
65°	8.8
67.5°	8.0
70°	7.5
72.5°	5.7
75°	4.4
77.5°	4.0
80°	3.1
82.5°	2.2
85°	1.3
87.5°	0.9
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)