

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: P749686

Luminaire Tested: LD4D50D010-EU4DR6540509040-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P749686
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-EU4DR6540509040-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3341.3 lumens
Efficiency: N/A
Efficacy: 71.1 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

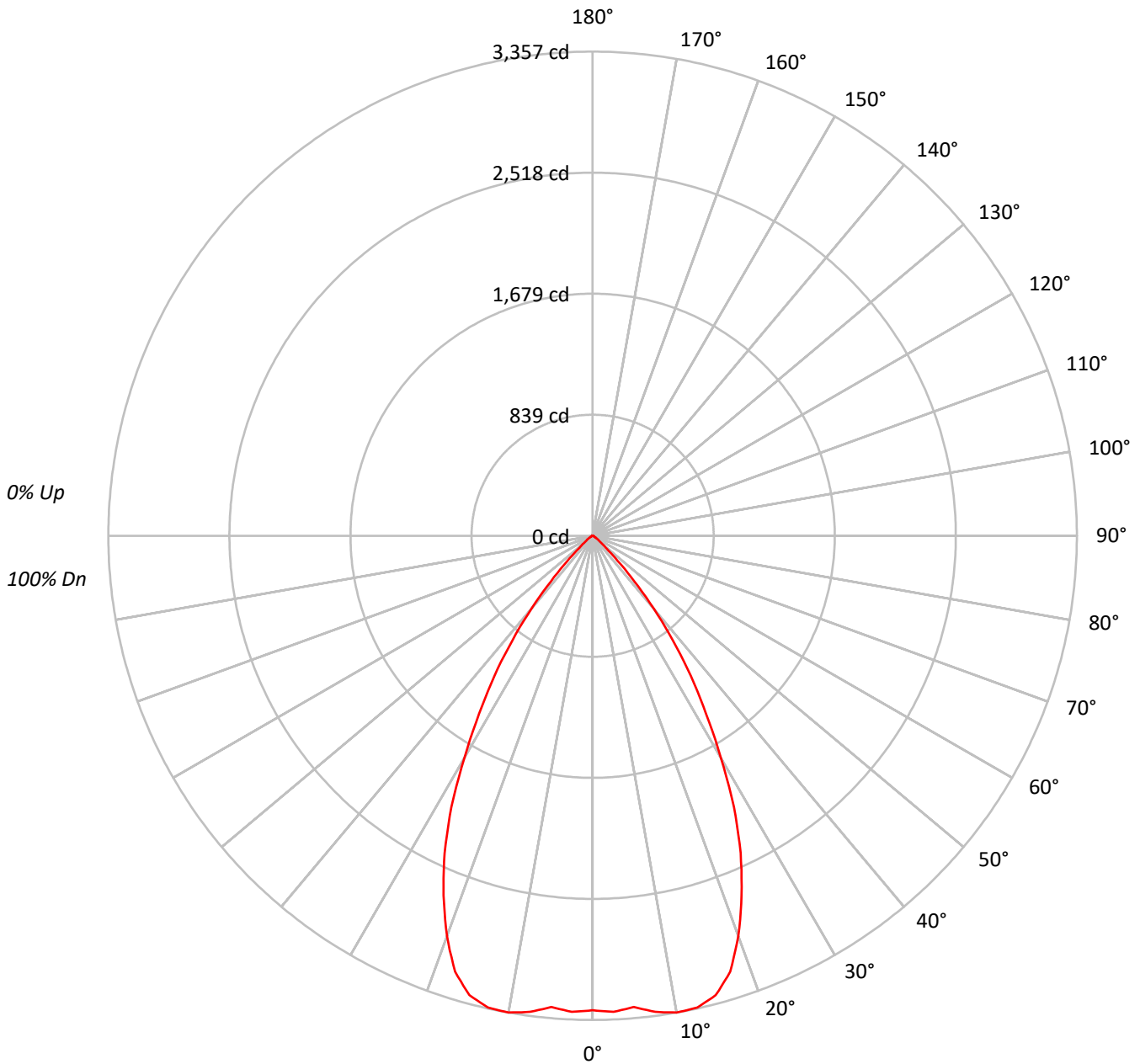


Downlight

TEST NUMBER: P749686

CATALOG NUMBER: LD4D50D010-EU4DR6540509040-4LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P749686

CATALOG NUMBER: LD4D50D010-EU4DR6540509040-4LBDP1B

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	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°	359435
5°	359733
10°	372402
15°	373020
20°	343424
25°	292613
30°	224003
35°	158259
40°	93423
45°	37919
50°	13751
55°	7658
60°	4392
65°	2404
70°	2524
75°	1984
80°	2076
85°	1755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 37919 cd/sqm



TEST NUMBER: P749686

CATALOG NUMBER: LD4D50D010-EU4DR6540509040-4LBDP1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.8	9.5
10°-20°	913.7	27.3
20°-30°	1096.3	32.8
30°-40°	736.8	22.1
40°-50°	220.6	6.6
50°-60°	38.9	1.2
60°-70°	11.0	0.3
70°-80°	5.4	0.2
80°-90°	1.7	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°	2326.8	69.6
0°-40°	3063.6	91.7
0°-60°	3323.1	99.5
0°-90°	3341.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3341.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3290	
5°	3280	317
15°	3298	914
25°	2427	1096
35°	1186	737
45°	245	221
55°	40	39
65°	9	11
75°	5	5
85°	1	2
90°	0	



TEST NUMBER: P749686

CATALOG NUMBER: LD4D50D010-EU4DR6540509040-4LBDP1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	3289.7
2.5°	3303.7
5°	3279.9
7.5°	3329.5
10°	3356.6
12.5°	3350.0
15°	3297.7
17.5°	3169.6
20°	2953.6
22.5°	2699.3
25°	2427.2
27.5°	2120.1
30°	1775.5
32.5°	1463.2
35°	1186.5
37.5°	913.0
40°	655.0
42.5°	427.8
45°	245.4
47.5°	130.0
50°	80.9
52.5°	56.1
55°	40.2
57.5°	29.0
60°	20.1
62.5°	13.1
65°	9.3
67.5°	8.4
70°	7.9
72.5°	6.1
75°	4.7
77.5°	4.2
80°	3.3
82.5°	2.3
85°	1.4
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)