

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: P749650

Luminaire Tested: LD4D50D010-EU4DR6540509027-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P749650
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-EU4DR6540509027-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3551.4 lumens
Efficiency: N/A
Efficacy: 75.6 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

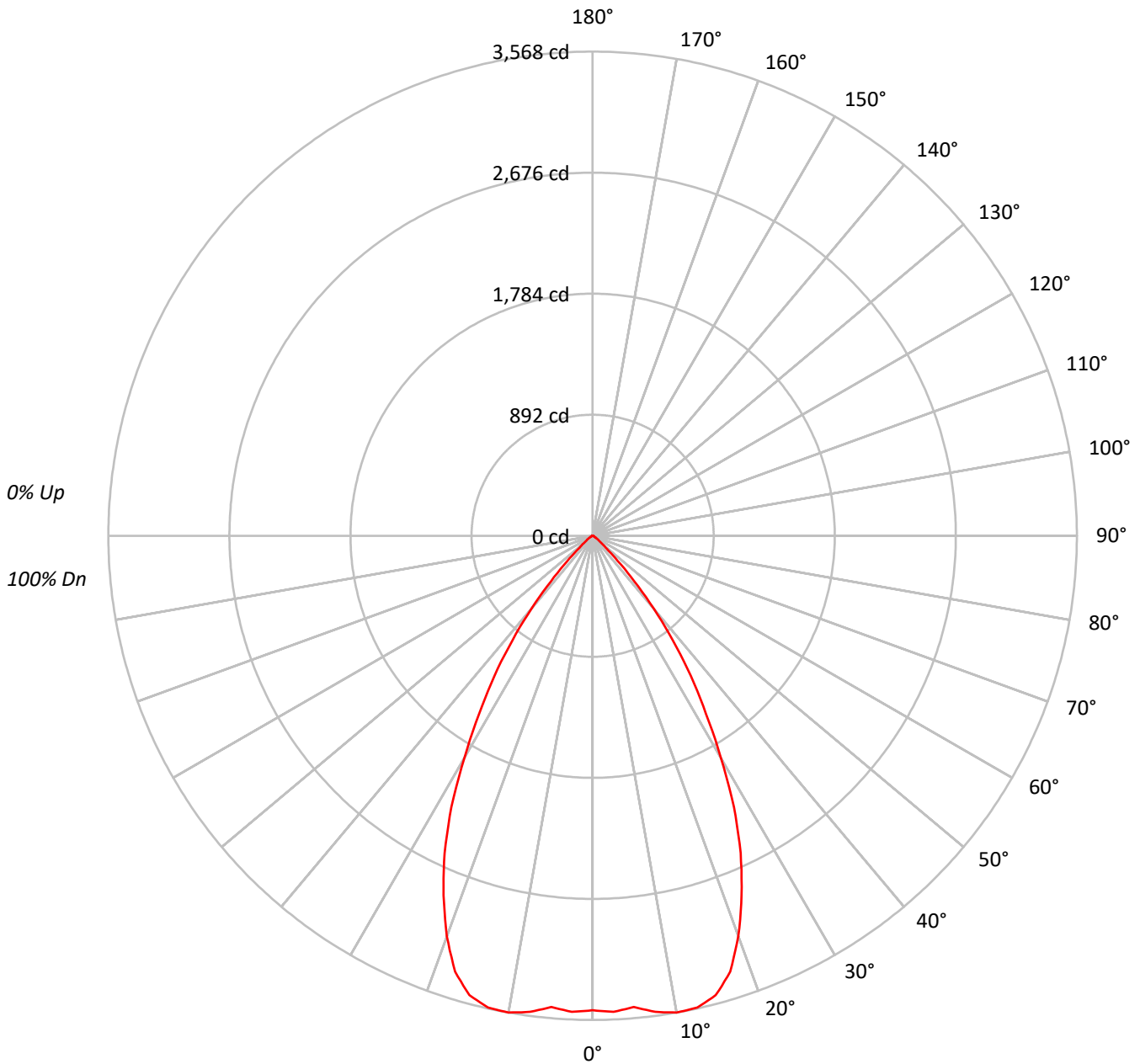


Downlight

TEST NUMBER: P749650

CATALOG NUMBER: LD4D50D010-EU4DR6540509027-4LBDP1MW

Luminous Intensity Polar Plot





TEST NUMBER: P749650

CATALOG NUMBER: LD4D50D010-EU4DR6540509027-4LBDP1MW

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°	382041
5°	382360
10°	395823
15°	396480
20°	365027
25°	311022
30°	238096
35°	168209
40°	99285
45°	40314
50°	14618
55°	8134
60°	4676
65°	2559
70°	2683
75°	2111
80°	2202
85°	1880

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 40314 cd/sqm



TEST NUMBER: P749650

CATALOG NUMBER: LD4D50D010-EU4DR6540509027-4LBDP1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.7	9.5
10°-20°	971.2	27.3
20°-30°	1165.3	32.8
30°-40°	783.1	22.0
40°-50°	234.4	6.6
50°-60°	41.4	1.2
60°-70°	11.7	0.3
70°-80°	5.8	0.2
80°-90°	1.8	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°	2473.2	69.6
0°-40°	3256.3	91.7
0°-60°	3532.1	99.5
0°-90°	3551.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3551.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3497	
5°	3486	337
15°	3505	971
25°	2580	1165
35°	1261	783
45°	261	234
55°	43	41
65°	10	12
75°	5	6
85°	2	2
90°	0	



TEST NUMBER: P749650

CATALOG NUMBER: LD4D50D010-EU4DR6540509027-4LBDP1MW

CANDELA DISTRIBUTION (FULL):

0°	
0°	3496.6
2.5°	3511.5
5°	3486.2
7.5°	3538.9
10°	3567.7
12.5°	3560.7
15°	3505.1
17.5°	3368.9
20°	3139.4
22.5°	2869.0
25°	2579.9
27.5°	2253.4
30°	1887.2
32.5°	1555.3
35°	1261.1
37.5°	970.4
40°	696.1
42.5°	454.7
45°	260.9
47.5°	138.1
50°	86.0
52.5°	59.6
55°	42.7
57.5°	30.8
60°	21.4
62.5°	13.9
65°	9.9
67.5°	8.9
70°	8.4
72.5°	6.5
75°	5.0
77.5°	4.5
80°	3.5
82.5°	2.5
85°	1.5
87.5°	1.0
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)