

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: P748868

Luminaire Tested: LD4D45BD010-EU4DR6540509027-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748868
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: LD4D45BD010-EU4DR6540509027-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3504.9 lumens
Efficiency: N/A
Efficacy: 90.6 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): 38.7
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

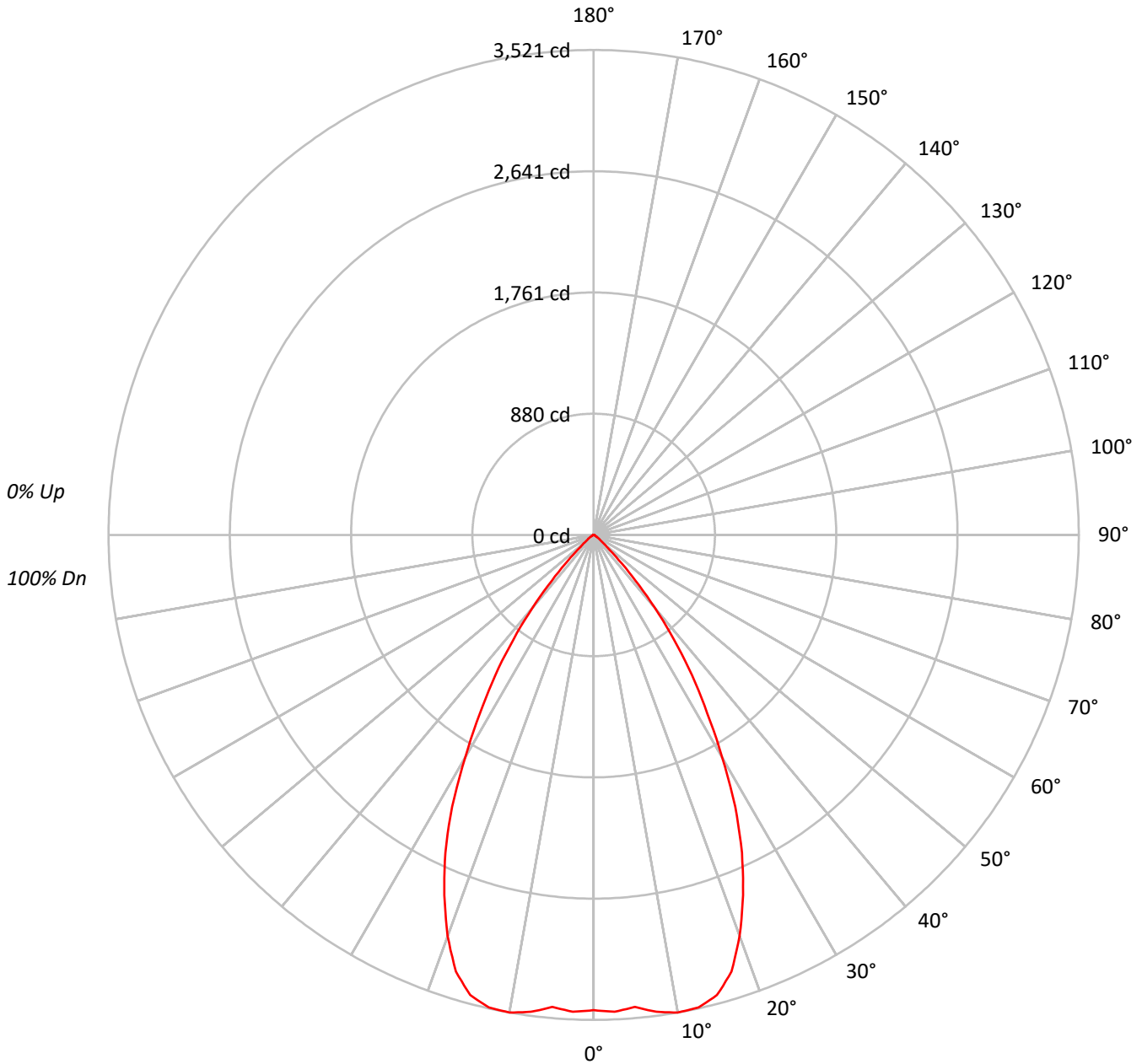


Downlight

TEST NUMBER: P748868

CATALOG NUMBER: LD4D45BD010-EU4DR6540509027-4LBDP1H

Luminous Intensity Polar Plot





TEST NUMBER: P748868

CATALOG NUMBER: LD4D45BD010-EU4DR6540509027-4LBDP1H

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°	377037
5°	377348
10°	390642
15°	391288
20°	360237
25°	306947
30°	234979
35°	166008
40°	97987
45°	39788
50°	14414
55°	8039
60°	4611
65°	2534
70°	2651
75°	2069
80°	2139
85°	1880

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 39788 cd/sqm



TEST NUMBER: P748868

CATALOG NUMBER: LD4D45BD010-EU4DR6540509027-4LBDP1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.3	9.5
10°-20°	958.5	27.3
20°-30°	1150.0	32.8
30°-40°	772.8	22.1
40°-50°	231.4	6.6
50°-60°	40.8	1.2
60°-70°	11.6	0.3
70°-80°	5.7	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°	2440.8	69.6
0°-40°	3213.6	91.7
0°-60°	3485.8	99.5
0°-90°	3504.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3504.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3451	
5°	3440	332
15°	3459	958
25°	2546	1150
35°	1245	773
45°	258	231
55°	42	41
65°	10	12
75°	5	6
85°	2	2
90°	0	



TEST NUMBER: P748868

CATALOG NUMBER: LD4D45BD010-EU4DR6540509027-4LBDP1H

CANDELA DISTRIBUTION (FULL):

0°	
0°	3450.8
2.5°	3465.5
5°	3440.5
7.5°	3492.5
10°	3521.0
12.5°	3514.1
15°	3459.2
17.5°	3324.8
20°	3098.2
22.5°	2831.5
25°	2546.1
27.5°	2223.9
30°	1862.5
32.5°	1534.9
35°	1244.6
37.5°	957.7
40°	687.0
42.5°	448.7
45°	257.5
47.5°	136.3
50°	84.8
52.5°	58.8
55°	42.2
57.5°	30.4
60°	21.1
62.5°	13.7
65°	9.8
67.5°	8.8
70°	8.3
72.5°	6.4
75°	4.9
77.5°	4.4
80°	3.4
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)