

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: P749001

Luminaire Tested: LD4D45BD010-EU4DR7040509050-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749001
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-76)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D45BD010-EU4DR7040509050-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4341.8 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.04
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

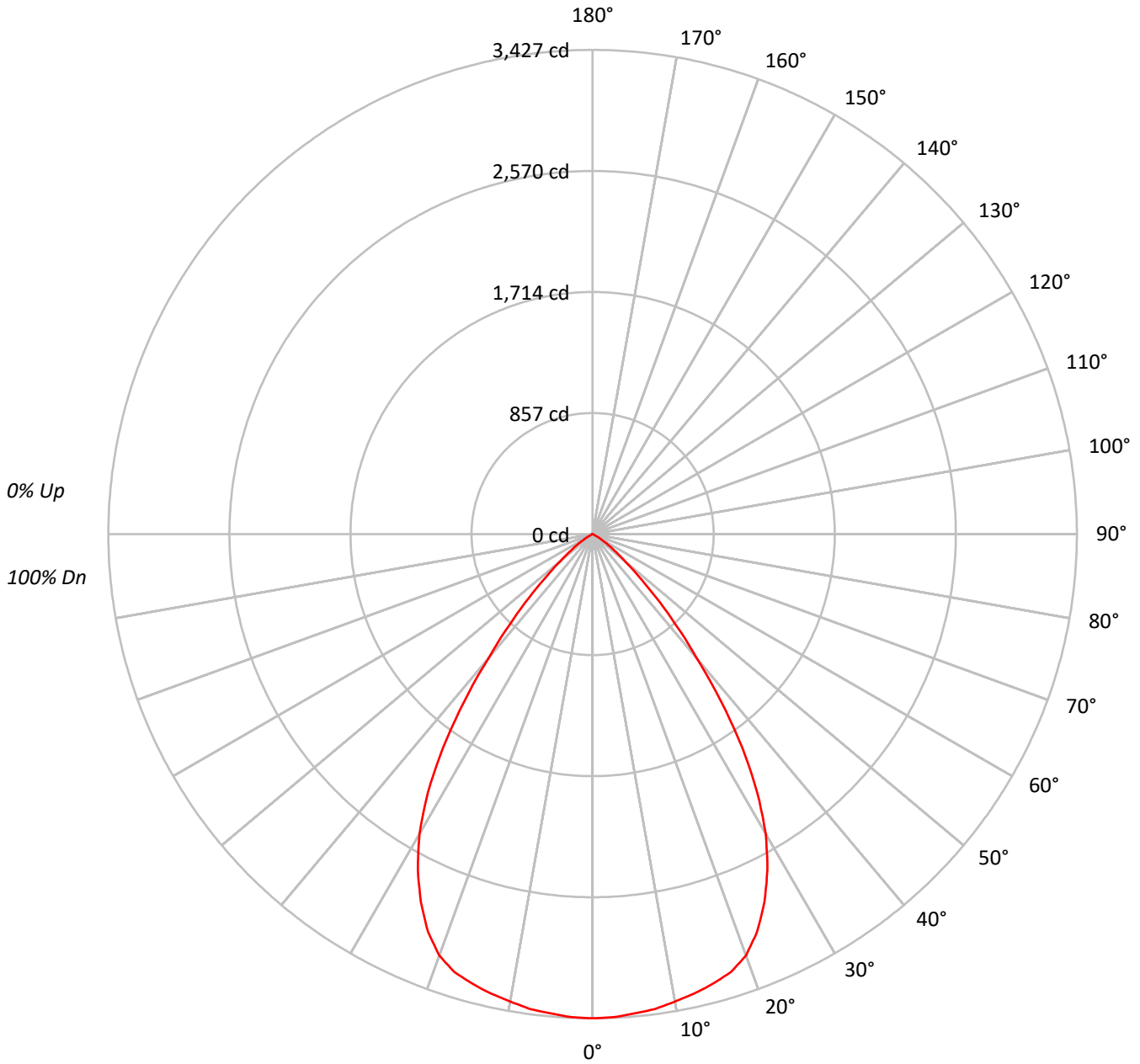
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P749001
CATALOG NUMBER: LD4D45BD010-EU4DR7040509050-4LBS1B

Luminous Intensity Polar Plot





TEST NUMBER: P749001

CATALOG NUMBER: LD4D45BD010-EU4DR7040509050-4LBS1B

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	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93		
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85		
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78		
4	95	87	81	76	93	86	80	76	83	78	75	81	77	74	79	76	73	71		
5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	65		
6	84	75	68	63	83	74	68	63	72	67	63	71	66	62	69	65	62	60		
7	80	69	63	58	78	69	62	58	67	62	58	66	61	57	65	61	57	56		
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51		
9	71	61	54	50	70	60	54	50	59	53	50	58	53	49	57	53	49	48		
10	67	57	50	46	66	56	50	46	55	50	46	55	50	46	54	49	46	44		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	374437
5°	373498
10°	372691
15°	372590
20°	368945
25°	346574
30°	308974
35°	246345
40°	163568
45°	97794
50°	50705
55°	26650
60°	9418
65°	155
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 97794 cd/sqm



TEST NUMBER: P749001

CATALOG NUMBER: LD4D45BD010-EU4DR7040509050-4LBS1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.9	7.5
10°-20°	928.8	21.4
20°-30°	1310.3	30.2
30°-40°	1131.1	26.1
40°-50°	506.5	11.7
50°-60°	132.6	3.1
60°-70°	8.6	0.2
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	2563.0	59.0
0°-40°	3694.1	85.1
0°-60°	4333.2	99.8
0°-90°	4341.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4341.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3427	
5°	3405	324
15°	3294	929
25°	2875	1310
35°	1847	1131
45°	633	507
55°	140	133
65°	1	9
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P749001

CATALOG NUMBER: LD4D45BD010-EU4DR7040509050-4LBS1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	3427.0
2.5°	3423.3
5°	3405.4
7.5°	3390.6
10°	3359.2
12.5°	3330.8
15°	3293.9
17.5°	3251.3
20°	3173.1
22.5°	3044.3
25°	2874.8
27.5°	2678.2
30°	2449.0
32.5°	2168.6
35°	1846.9
37.5°	1491.9
40°	1146.8
42.5°	871.4
45°	632.9
47.5°	436.3
50°	298.3
52.5°	205.8
55°	139.9
57.5°	84.4
60°	43.1
62.5°	13.6
65°	0.6
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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)