

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: P748852

Luminaire Tested: LD4D45BD010-EU4DR6540509024-4LBCSSQMMS

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P748852
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D45BD010-EU4DR6540509024-4LBCSSQMMMS
Description: 4 INCH SQAURE SHALLOW CAST MATTE METALLIC SILVER TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3107.2 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' x H: 0')
CIE Type: Direct

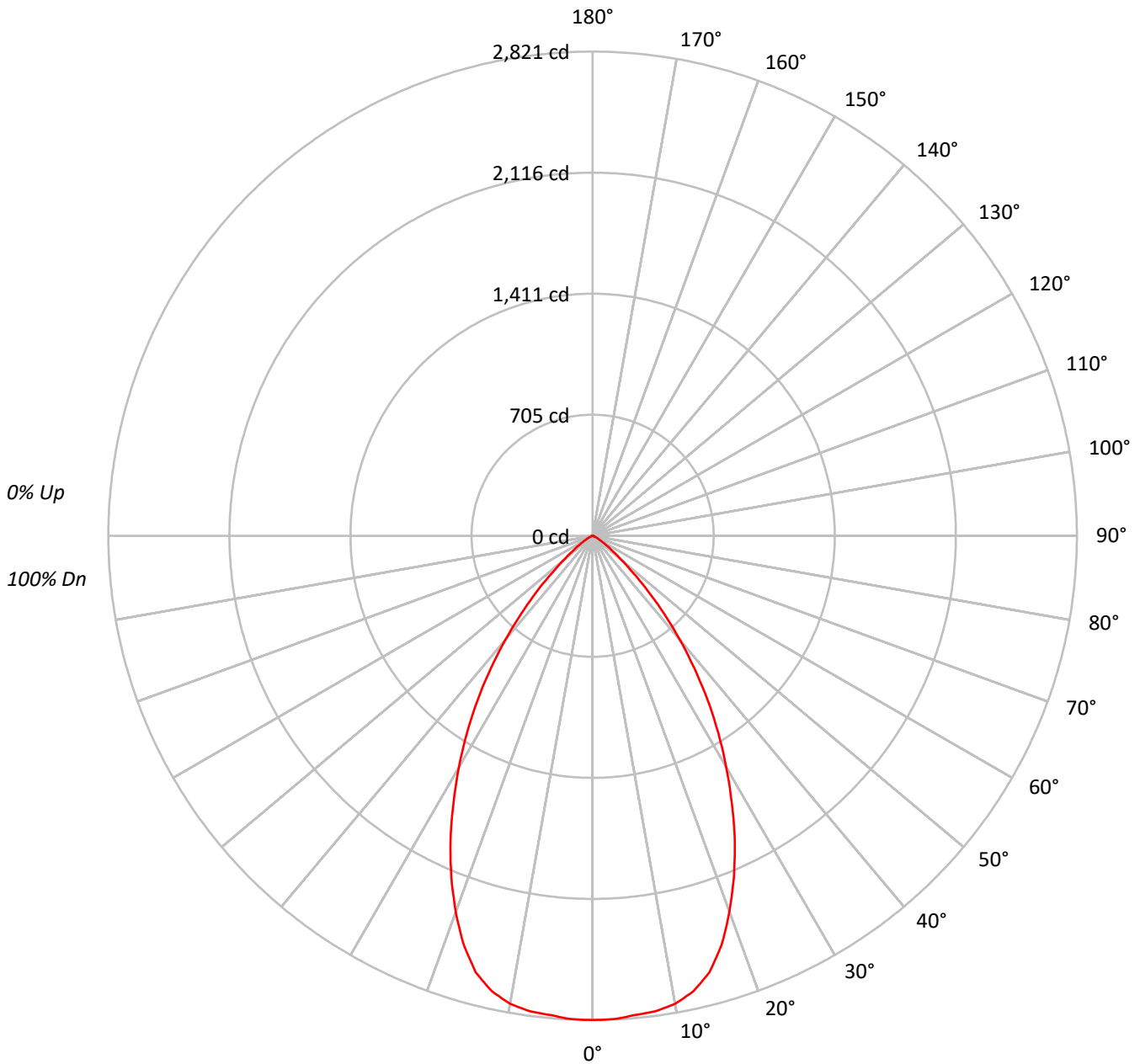
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P748852

CATALOG NUMBER: LD4D45BD010-EU4DR6540509024-4LBCSSQMMS

Luminous Intensity Polar Plot





TEST NUMBER: P748852

CATALOG NUMBER: LD4D45BD010-EU4DR6540509024-4LBCSSQMMMS

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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93	93	93	93
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85	85	85	85
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78	78	78	78
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72	72	72	72
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66	66	66	66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61	61	61	61
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56	56	56	56
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52	52	52	52
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49	49	49	49
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46	46	46	46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	164775
5°	164355
10°	164215
15°	159154
20°	144889
25°	126260
30°	105016
35°	83212
40°	60055
45°	37944
50°	19780
55°	10508
60°	5525
65°	3040
70°	1281
75°	1399
80°	975
85°	804

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 37944 cd/sqm



TEST NUMBER: P748852

CATALOG NUMBER: LD4D45BD010-EU4DR6540509024-4LBCSSQMMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.8	8.6
10°-20°	730.6	23.5
20°-30°	893.0	28.7
30°-40°	724.6	23.3
40°-50°	361.1	11.6
50°-60°	100.7	3.2
60°-70°	22.9	0.7
70°-80°	5.9	0.2
80°-90°	1.5	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°	1890.4	60.8
0°-40°	2615.0	84.2
0°-60°	3076.9	99.0
0°-90°	3107.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3107.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2821	
5°	2803	267
15°	2632	731
25°	1959	893
35°	1167	725
45°	459	361
55°	103	101
65°	22	23
75°	6	6
85°	1	2
90°	0	



TEST NUMBER: P748852

CATALOG NUMBER: LD4D45BD010-EU4DR6540509024-4LBCSSQMMS

CANDELA DISTRIBUTION (FULL):

	0°
0°	2821.3
2.5°	2819.2
5°	2803.4
7.5°	2794.3
10°	2769.0
12.5°	2717.6
15°	2632.2
17.5°	2498.7
20°	2331.2
22.5°	2150.5
25°	1959.3
27.5°	1754.9
30°	1557.2
32.5°	1361.9
35°	1167.1
37.5°	972.6
40°	787.7
42.5°	614.4
45°	459.4
47.5°	320.1
50°	217.7
52.5°	150.1
55°	103.2
57.5°	69.7
60°	47.3
62.5°	32.8
65°	22.0
67.5°	11.2
70°	7.5
72.5°	7.0
75°	6.2
77.5°	4.1
80°	2.9
82.5°	2.1
85°	1.2
87.5°	0.8
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)