

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: P753685

Luminaire Tested: LD4D75BD010-EU4DR7070959050-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P753685
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D75BD010-EU4DR7070959050-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

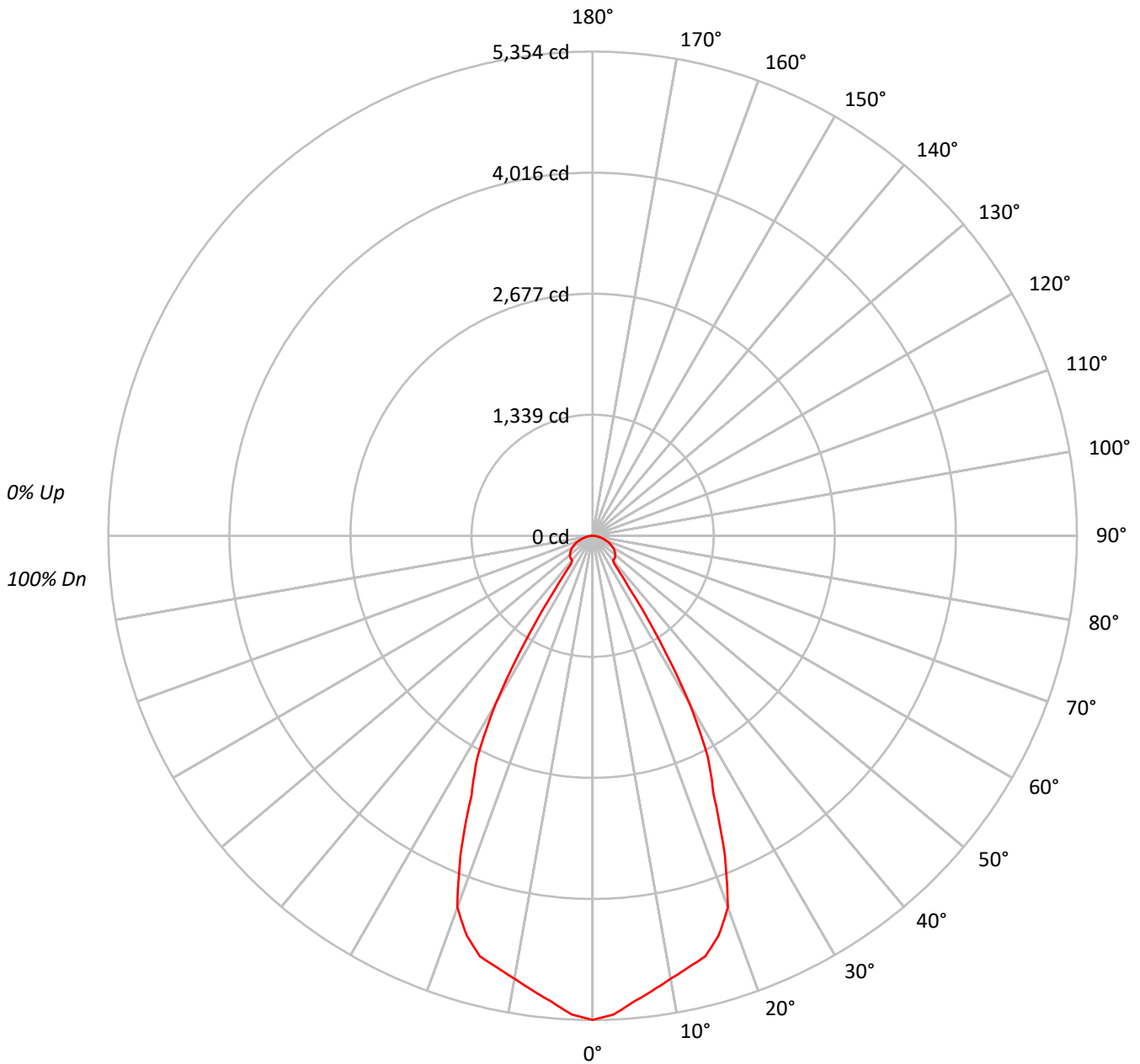
Lumens per Lamp: N/A
Luminaire Lumens: 4762.0 lumens
Efficiency: N/A
Efficacy: 65.8 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 72.4
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: P753685
CATALOG NUMBER: LD4D75BD010-EU4DR7070959050-4LBSQW1B

Luminous Intensity Polar Plot





TEST NUMBER: P753685

CATALOG NUMBER: LD4D75BD010-EU4DR7070959050-4LBSQW1B

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	584971
5°	567595
10°	551769
15°	544536
20°	508484
25°	381993
30°	270040
35°	95649
40°	50291
45°	53571
50°	55481
55°	56518
60°	56859
65°	55662
70°	52519
75°	48674
80°	43227
85°	35102

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 56877 cd/sqm



TEST NUMBER: P753685

CATALOG NUMBER: LD4D75BD010-EU4DR7070959050-4LBSQW1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.1	10.3
10°-20°	1338.9	28.1
20°-30°	1474.6	31.0
30°-40°	563.4	11.8
40°-50°	266.0	5.6
50°-60°	264.5	5.6
60°-70°	211.7	4.4
70°-80°	121.7	2.6
80°-90°	33.1	0.7
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°	3301.6	69.3
0°-40°	3865.0	81.2
0°-60°	4395.5	92.3
0°-90°	4762.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4762.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5354	
5°	5175	488
15°	4814	1339
25°	3169	1475
35°	717	563
45°	347	266
55°	297	264
65°	215	212
75°	115	122
85°	28	33
90°	0	



TEST NUMBER: P753685

CATALOG NUMBER: LD4D75BD010-EU4DR7070959050-4LBSQW1B

CANDELA DISTRIBUTION (FULL):

0°	
0°	5353.9
2.5°	5298.0
5°	5175.1
7.5°	5072.5
10°	4973.3
12.5°	4889.4
15°	4814.0
17.5°	4631.7
20°	4373.2
22.5°	3815.4
25°	3168.6
27.5°	2758.3
30°	2140.4
32.5°	1382.6
35°	717.1
37.5°	387.4
40°	352.6
42.5°	350.1
45°	346.7
47.5°	339.1
50°	326.4
52.5°	311.9
55°	296.7
57.5°	279.7
60°	260.2
62.5°	238.2
65°	215.3
67.5°	189.9
70°	164.4
72.5°	139.0
75°	115.3
77.5°	90.7
80°	68.7
82.5°	48.3
85°	28.0
87.5°	11.0
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)