

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: P754978

Luminaire Tested: LD4D85BD010-EU4DR5570959035-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754978
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D85BD010-EU4DR5570959035-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 55° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8372.0 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.87
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

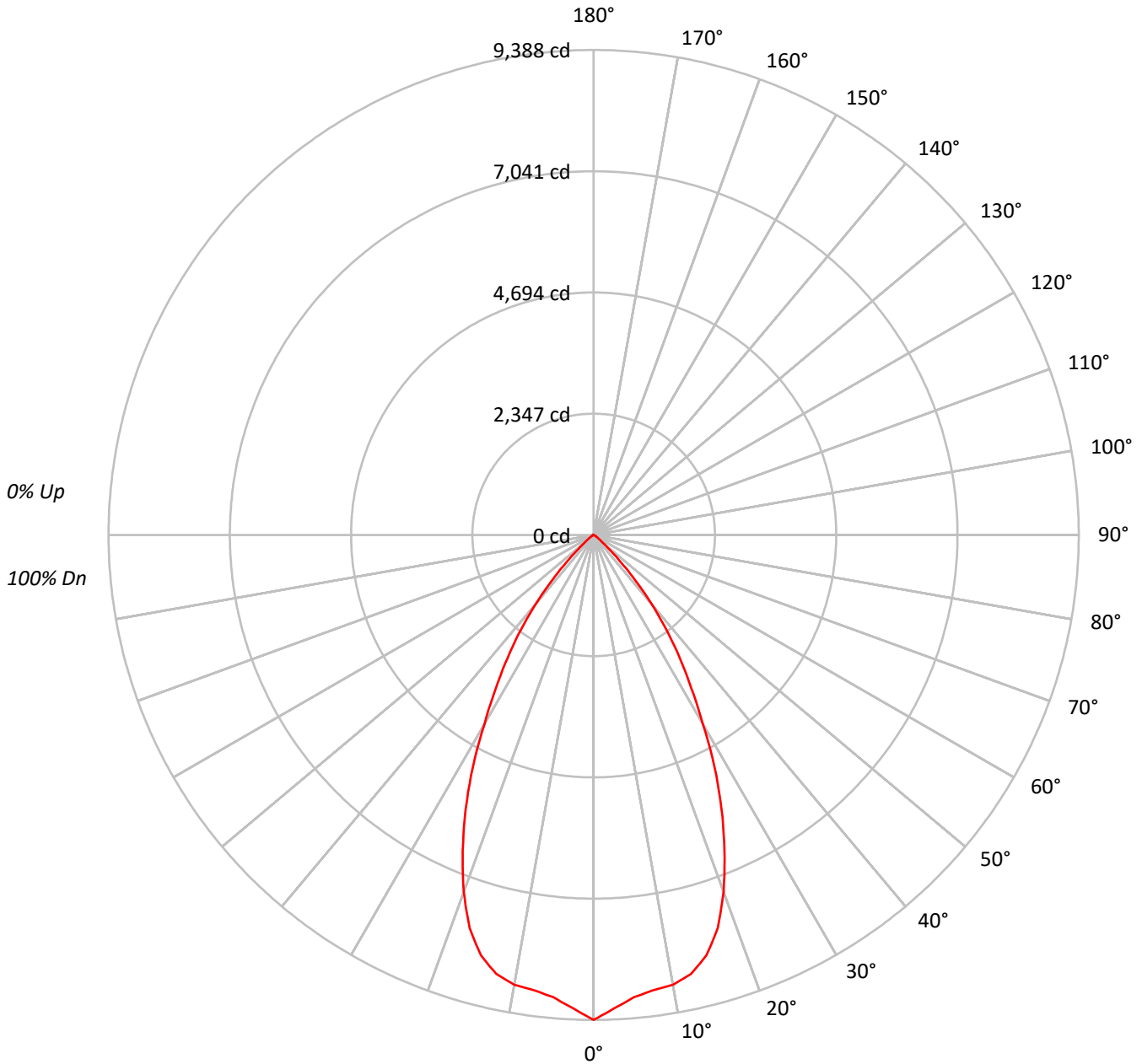
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P754978
CATALOG NUMBER: LD4D85BD010-EU4DR5570959035-4LBDP1H

Luminous Intensity Polar Plot





TEST NUMBER: P754978

CATALOG NUMBER: LD4D85BD010-EU4DR5570959035-4LBDP1H

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	114	111	108	106	111	109	106	104	105	103	101		101	99	98		97	96	95	94
2	108	103	99	96	106	101	98	95	98	95	92		95	93	90		92	90	89	87
3	102	96	91	87	100	95	90	86	92	88	85		90	86	84		87	85	82	81
4	97	90	84	80	95	88	83	79	86	82	78		84	81	78		82	79	77	75
5	92	84	78	74	91	83	77	73	81	76	73		79	75	72		78	74	71	70
6	88	79	73	68	86	78	72	68	76	71	68		75	70	67		74	70	67	65
7	83	74	68	64	82	73	67	63	72	67	63		71	66	63		70	65	62	61
8	79	69	63	59	78	69	63	59	68	63	59		67	62	59		66	62	58	57
9	75	66	60	56	74	65	59	55	64	59	55		63	58	55		62	58	55	54
10	72	62	56	52	71	61	56	52	61	56	52		60	55	52		59	55	52	50

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1025729
5°	984986
10°	981275
15°	953085
20°	854582
25°	706265
30°	533495
35°	386823
40°	247563
45°	113061
50°	36971
55°	15963
60°	6862
65°	905
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 113061 cd/sqm



TEST NUMBER: P754978

CATALOG NUMBER: LD4D85BD010-EU4DR5570959035-4LBDP1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	854.6	10.2
10°-20°	2332.3	27.9
20°-30°	2657.8	31.7
30°-40°	1809.3	21.6
40°-50°	623.5	7.4
50°-60°	86.2	1.0
60°-70°	8.3	0.1
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°	5844.7	69.8
0°-40°	7654.0	91.4
0°-60°	8363.7	99.9
0°-90°	8372.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8372.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9388	
5°	8981	855
15°	8426	2332
25°	5858	2658
35°	2900	1809
45°	732	623
55°	84	86
65°	4	8
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P754978

CATALOG NUMBER: LD4D85BD010-EU4DR5570959035-4LBDP1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	9387.9
2.5°	9172.7
5°	8980.7
7.5°	8886.5
10°	8844.6
12.5°	8705.0
15°	8425.8
17.5°	7982.6
20°	7349.8
22.5°	6619.2
25°	5858.4
27.5°	5066.2
30°	4228.6
32.5°	3519.0
35°	2900.1
37.5°	2311.5
40°	1735.7
42.5°	1202.9
45°	731.7
47.5°	394.4
50°	217.5
52.5°	129.1
55°	83.8
57.5°	53.5
60°	31.4
62.5°	14.0
65°	3.5
67.5°	1.2
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)