

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: P746871

Luminaire Tested: LD4D35BD010-EU4DR3520359035-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746871
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D35BD010-EU4DR3520359035-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 35° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3409.1 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.54
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

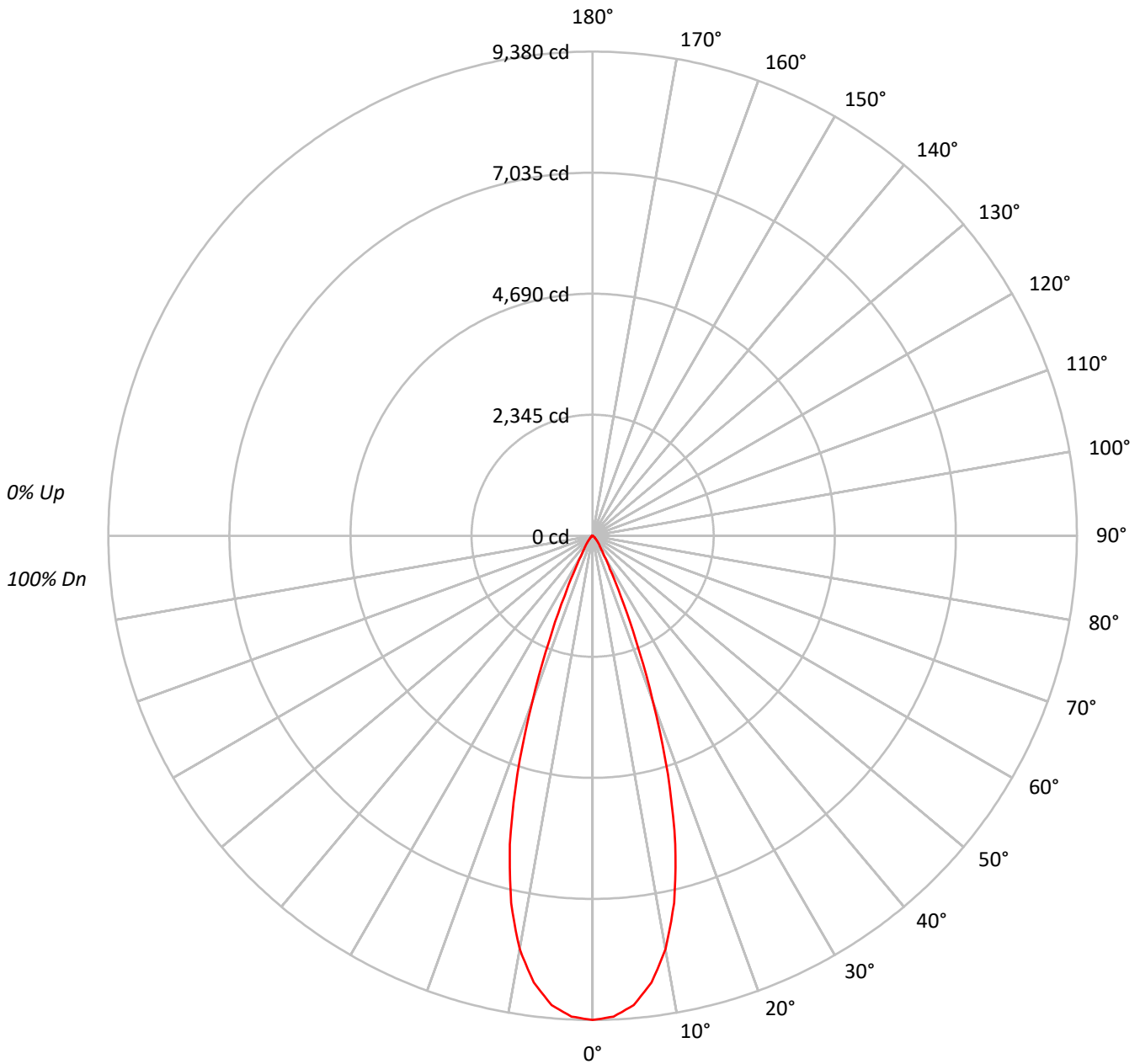
Input Watts (W): 30.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P746871
CATALOG NUMBER: LD4D35BD010-EU4DR3520359035-4LBS1LI

Luminous Intensity Polar Plot





TEST NUMBER: P746871

CATALOG NUMBER: LD4D35BD010-EU4DR3520359035-4LBS1LI

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	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	98	96	96	96	96
2	110	106	103	101	108	105	102	99	102	99	97	99	97	95	96	95	93	92	92	92	92
3	106	101	97	94	105	100	96	93	97	95	92	95	93	91	93	91	89	88	88	88	88
4	103	97	92	89	101	96	92	89	94	90	88	92	89	87	90	88	86	84	84	84	84
5	99	93	88	85	98	92	87	84	90	86	84	89	85	83	87	84	82	81	81	81	81
6	96	89	84	81	94	88	84	81	87	83	80	85	82	80	84	81	79	78	78	78	78
7	93	85	81	78	91	85	80	77	84	80	77	83	79	77	82	79	76	75	75	75	75
8	90	82	78	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72	72	72	72
9	87	79	75	72	86	79	75	72	78	74	71	77	74	71	77	73	71	70	70	70	70
10	84	77	72	69	83	76	72	69	76	72	69	75	71	69	74	71	69	68	68	68	68

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1024899
5°	1000824
10°	902004
15°	700103
20°	397083
25°	154480
30°	57631
35°	31585
40°	20653
45°	12562
50°	8006
55°	5658
60°	4130
65°	2249
70°	160
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12562 cd/sqm



TEST NUMBER: P746871

CATALOG NUMBER: LD4D35BD010-EU4DR3520359035-4LBS1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	839.2	24.6
10°-20°	1638.6	48.1
20°-30°	668.3	19.6
30°-40°	159.9	4.7
40°-50°	66.6	2.0
50°-60°	27.6	0.8
60°-70°	8.6	0.3
70°-80°	0.2	0.0
80°-90°	0.1	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°	3146.1	92.3
0°-40°	3306.0	97.0
0°-60°	3400.2	99.7
0°-90°	3409.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3409.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9380	
5°	9125	839
15°	6189	1639
25°	1281	668
35°	237	160
45°	81	67
55°	30	28
65°	9	9
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P746871

CATALOG NUMBER: LD4D35BD010-EU4DR3520359035-4LBS1LI

CANDELA DISTRIBUTION (FULL):

0°	
0°	9380.3
2.5°	9324.1
5°	9125.1
7.5°	8728.1
10°	8130.1
12.5°	7288.1
15°	6189.3
17.5°	4845.4
20°	3415.1
22.5°	2177.7
25°	1281.4
27.5°	724.4
30°	456.8
32.5°	320.7
35°	236.8
37.5°	183.1
40°	144.8
42.5°	111.5
45°	81.3
47.5°	60.9
50°	47.1
52.5°	37.3
55°	29.7
57.5°	24.0
60°	18.9
62.5°	13.8
65°	8.7
67.5°	3.1
70°	0.5
72.5°	0.5
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.5
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)