

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: P754756

Luminaire Tested: LD4D85BD010-EU4DR4070959040-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754756
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D85BD010-EU4DR4070959040-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 40° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7973.2 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.6
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

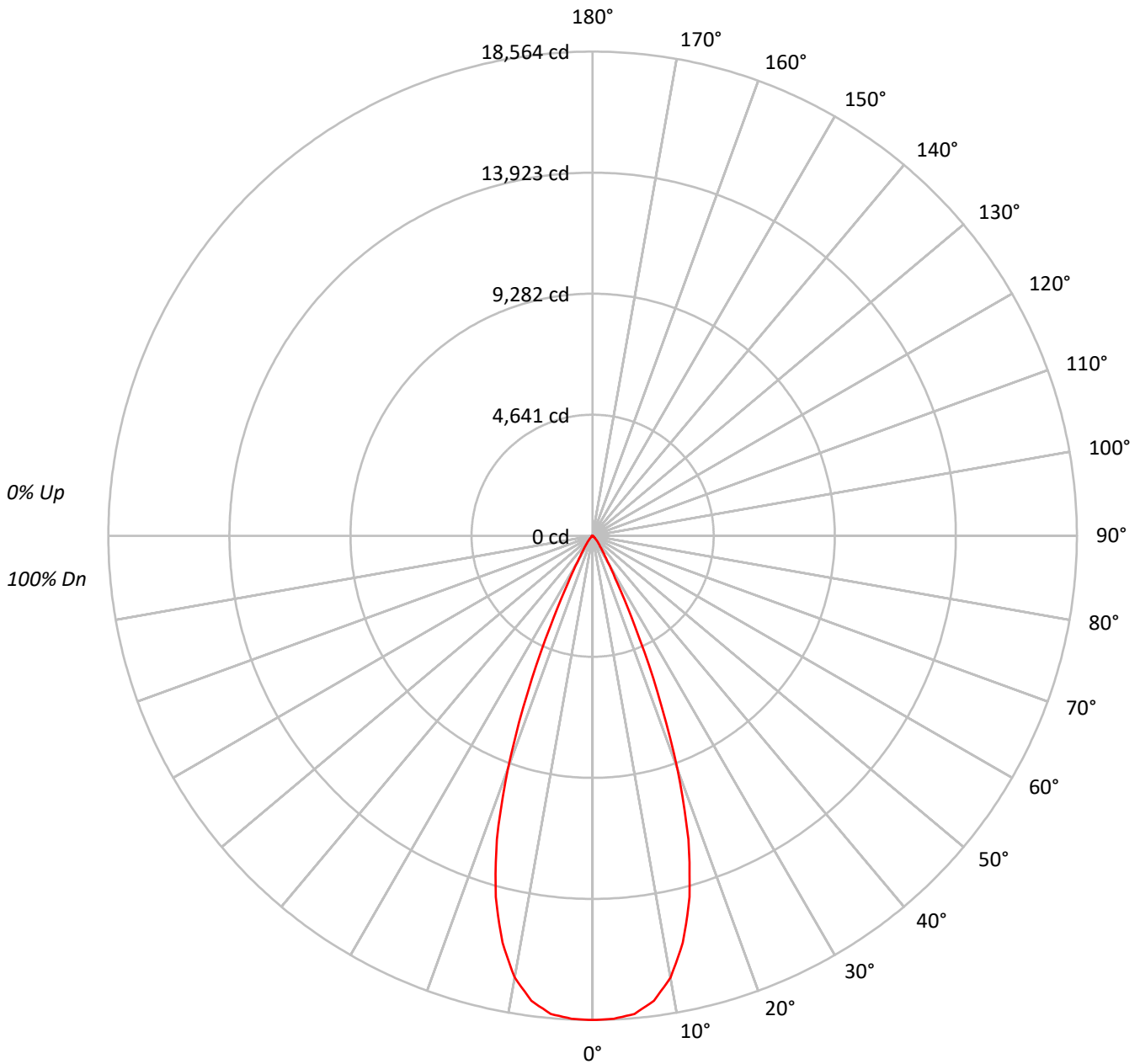
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P754756
CATALOG NUMBER: LD4D85BD010-EU4DR4070959040-4LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P754756

CATALOG NUMBER: LD4D85BD010-EU4DR4070959040-4LBDP1B

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	97	96	96	96	96
2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	95	93	92	92	92	92
3	106	101	97	94	104	100	96	93	97	94	92	95	93	90	93	91	89	88	88	88	88
4	102	97	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84	84	84	84
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81	81	81	81
6	95	88	84	80	94	88	83	80	86	82	80	85	82	79	84	81	79	77	77	77	77
7	92	85	80	77	91	84	80	77	83	79	76	82	79	76	81	78	76	74	74	74	74
8	89	82	77	74	88	81	77	74	80	76	73	79	76	73	78	75	73	72	72	72	72
9	86	79	74	71	85	78	74	71	77	73	71	76	73	70	76	72	70	69	69	69	69
10	83	76	71	68	82	75	71	68	75	71	68	74	70	68	73	70	68	67	67	67	67

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2028284
5°	2018428
10°	1907854
15°	1621912
20°	1105453
25°	461235
30°	145025
35°	67412
40°	37283
45°	17090
50°	8295
55°	4553
60°	2360
65°	853
70°	351
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17090 cd/sqm



TEST NUMBER: P754756

CATALOG NUMBER: LD4D85BD010-EU4DR4070959040-4LBDP1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1718.4	21.6
10°-20°	3849.7	48.3
20°-30°	1927.0	24.2
30°-40°	353.3	4.4
40°-50°	97.5	1.2
50°-60°	22.9	0.3
60°-70°	4.4	0.1
70°-80°	0.1	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°	7495.1	94.0
0°-40°	7848.3	98.4
0°-60°	7968.7	99.9
0°-90°	7973.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7973.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	18564	
5°	18403	###
15°	14339	3850
25°	3826	1927
35°	505	353
45°	111	97
55°	24	23
65°	3	4
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P754756

CATALOG NUMBER: LD4D85BD010-EU4DR4070959040-4LBDP1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	18563.7
2.5°	18536.6
5°	18403.2
7.5°	17978.1
10°	17196.2
12.5°	15977.2
15°	14338.6
17.5°	12207.7
20°	9507.4
22.5°	6481.8
25°	3825.9
27.5°	2022.5
30°	1149.5
32.5°	742.9
35°	505.4
37.5°	361.1
40°	261.4
42.5°	178.9
45°	110.6
47.5°	70.5
50°	48.8
52.5°	34.7
55°	23.9
57.5°	15.2
60°	10.8
62.5°	6.5
65°	3.3
67.5°	2.2
70°	1.1
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)