

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: P743951

Luminaire Tested: LD4D20D010-EU4DR2015309027-4LBCSSQMMS

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D20D010-EU4DR2015309027-4LBCSSQMMS
Description: 4 INCH SQAURE SHALLOW CAST MATTE METALLIC SILVER TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1768.7 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.36
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 23.1
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



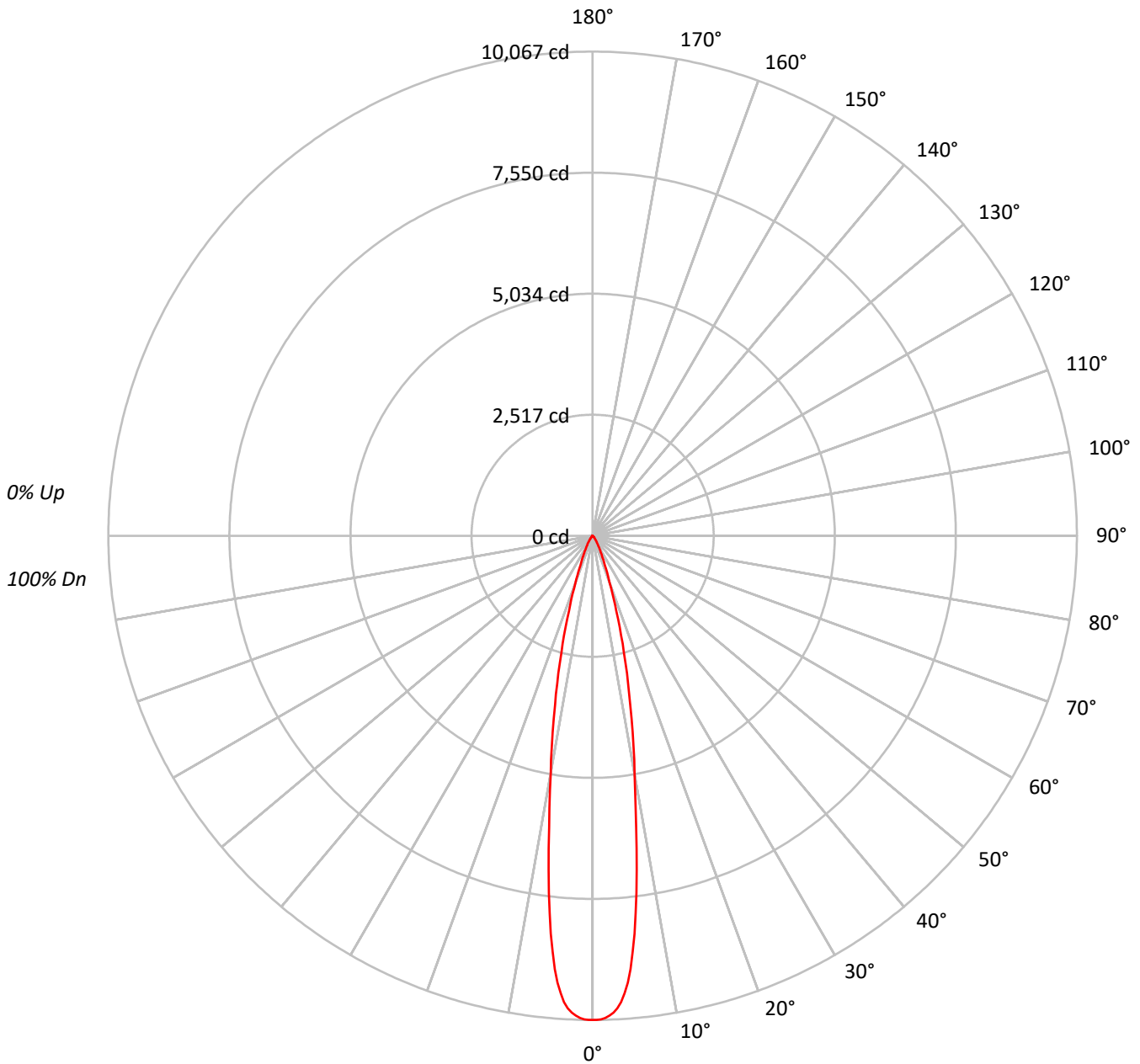
Downlight



TEST NUMBER: P743951

CATALOG NUMBER: LD4D20D010-EU4DR2015309027-4LBCSSQMMS

Luminous Intensity Polar Plot





TEST NUMBER: P743951

CATALOG NUMBER: LD4D20D010-EU4DR2015309027-4LBCSSQMMS

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	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	94
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	91
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	81
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	75

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1099884
5°	992291
10°	556928
15°	283093
20°	119866
25°	55335
30°	29295
35°	15779
40°	8444
45°	4991
50°	2890
55°	1543
60°	983
65°	698
70°	288
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4991 cd/sqm



TEST NUMBER: P743951

CATALOG NUMBER: LD4D20D010-EU4DR2015309027-4LBCSSQMMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	716.7	40.5
10°-20°	705.7	39.9
20°-30°	230.6	13.0
30°-40°	78.5	4.4
40°-50°	26.4	1.5
50°-60°	8.0	0.5
60°-70°	2.7	0.2
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°	1653.0	93.5
0°-40°	1731.5	97.9
0°-60°	1765.9	99.8
0°-90°	1768.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1768.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10067	
5°	9047	717
15°	2503	706
25°	459	231
35°	118	78
45°	32	26
55°	8	8
65°	3	3
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P743951

CATALOG NUMBER: LD4D20D010-EU4DR2015309027-4LBCSSQMMS

CANDELA DISTRIBUTION (FULL):

	0°
0°	10066.6
0.5°	10066.6
1°	10054.0
1.5°	10028.9
2°	9983.2
2.5°	9922.2
3°	9836.2
3.5°	9716.1
4°	9537.7
4.5°	9320.8
5°	9047.3
5.5°	8687.9
6°	8319.5
6.5°	7897.3
7°	7484.0
7.5°	7000.0
8°	6567.9
8.5°	6133.2
9°	5731.6
9.5°	5363.2
10°	5019.8
12.5°	3604.4
15°	2502.7
17.5°	1635.0
20°	1030.9
22.5°	667.8
25°	459.0
27.5°	322.7
30°	232.2
32.5°	166.7
35°	118.3
37.5°	82.5
40°	59.2
42.5°	43.0
45°	32.3
47.5°	25.1
50°	17.0
52.5°	10.8
55°	8.1
57.5°	6.3
60°	4.5
62.5°	3.6
65°	2.7



TEST NUMBER: P743951
CATALOG NUMBER: LD4D20D010-EU4DR2015309027-4LBCSSQMMS

CANDELA DISTRIBUTION (continued):

	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



67.5°		1.8
70°		0.9

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)