

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: P743939

Luminaire Tested: LD4D20D010-EU4DR2015309024-4LBCSSQMW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743939
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-EU4DR2015309024-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1593.2 lumens
Efficiency: N/A
Efficacy: 69.0 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

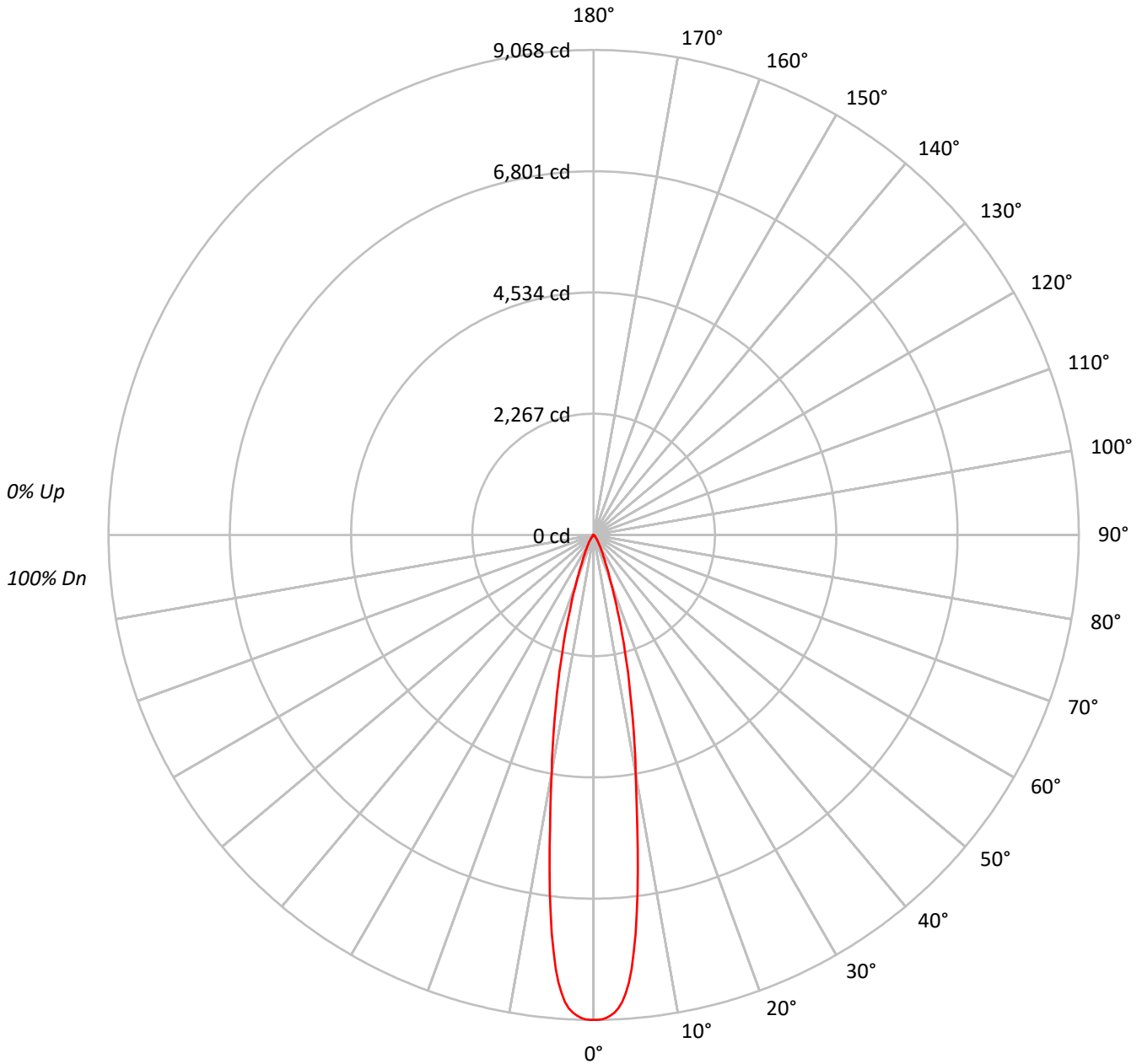


Downlight



TEST NUMBER: P743939
CATALOG NUMBER: LD4D20D010-EU4DR2015309024-4LBCSSQMW

Luminous Intensity Polar Plot





TEST NUMBER: P743939

CATALOG NUMBER: LD4D20D010-EU4DR2015309024-4LBCSSQMW

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°	990809
5°	893899
10°	501710
15°	255029
20°	107971
25°	49838
30°	26381
35°	14219
40°	7602
45°	4496
50°	2601
55°	1391
60°	874
65°	620
70°	256
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4496 cd/sqm



TEST NUMBER: P743939

CATALOG NUMBER: LD4D20D010-EU4DR2015309024-4LBCSSQMW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	645.7	40.5
10°-20°	635.8	39.9
20°-30°	207.7	13.0
30°-40°	70.7	4.4
40°-50°	23.8	1.5
50°-60°	7.2	0.5
60°-70°	2.4	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°	1489.1	93.5
0°-40°	1559.8	97.9
0°-60°	1590.8	99.8
0°-90°	1593.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1593.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9068	
5°	8150	646
15°	2255	636
25°	413	208
35°	107	71
45°	29	24
55°	7	7
65°	2	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P743939

CATALOG NUMBER: LD4D20D010-EU4DR2015309024-4LBCSSQMW

CANDELA DISTRIBUTION (FULL):

	0°
0°	9068.3
0.5°	9068.3
1°	9057.0
1.5°	9034.4
2°	8993.2
2.5°	8938.3
3°	8860.8
3.5°	8752.6
4°	8591.9
4.5°	8396.5
5°	8150.2
5.5°	7826.4
6°	7494.5
6.5°	7114.2
7°	6741.9
7.5°	6305.8
8°	5916.6
8.5°	5525.0
9°	5163.2
9.5°	4831.3
10°	4522.1
12.5°	3247.0
15°	2254.6
17.5°	1472.9
20°	928.6
22.5°	601.6
25°	413.4
27.5°	290.7
30°	209.1
32.5°	150.2
35°	106.6
37.5°	74.3
40°	53.3
42.5°	38.8
45°	29.1
47.5°	22.6
50°	15.3
52.5°	9.7
55°	7.3
57.5°	5.7
60°	4.0
62.5°	3.2
65°	2.4



TEST NUMBER: P743939
CATALOG NUMBER: LD4D20D010-EU4DR2015309024-4LBCSSQMW

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°		1.6
70°		0.8

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

Scaled Data Report



(END OF REPORT)