

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



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: P743975

Luminaire Tested: LD4D20D010-EU4DR2015309030-4LBSQW1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743975
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-EU4DR2015309030-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1688.7 lumens
Efficiency: N/A
Efficacy: 73.1 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



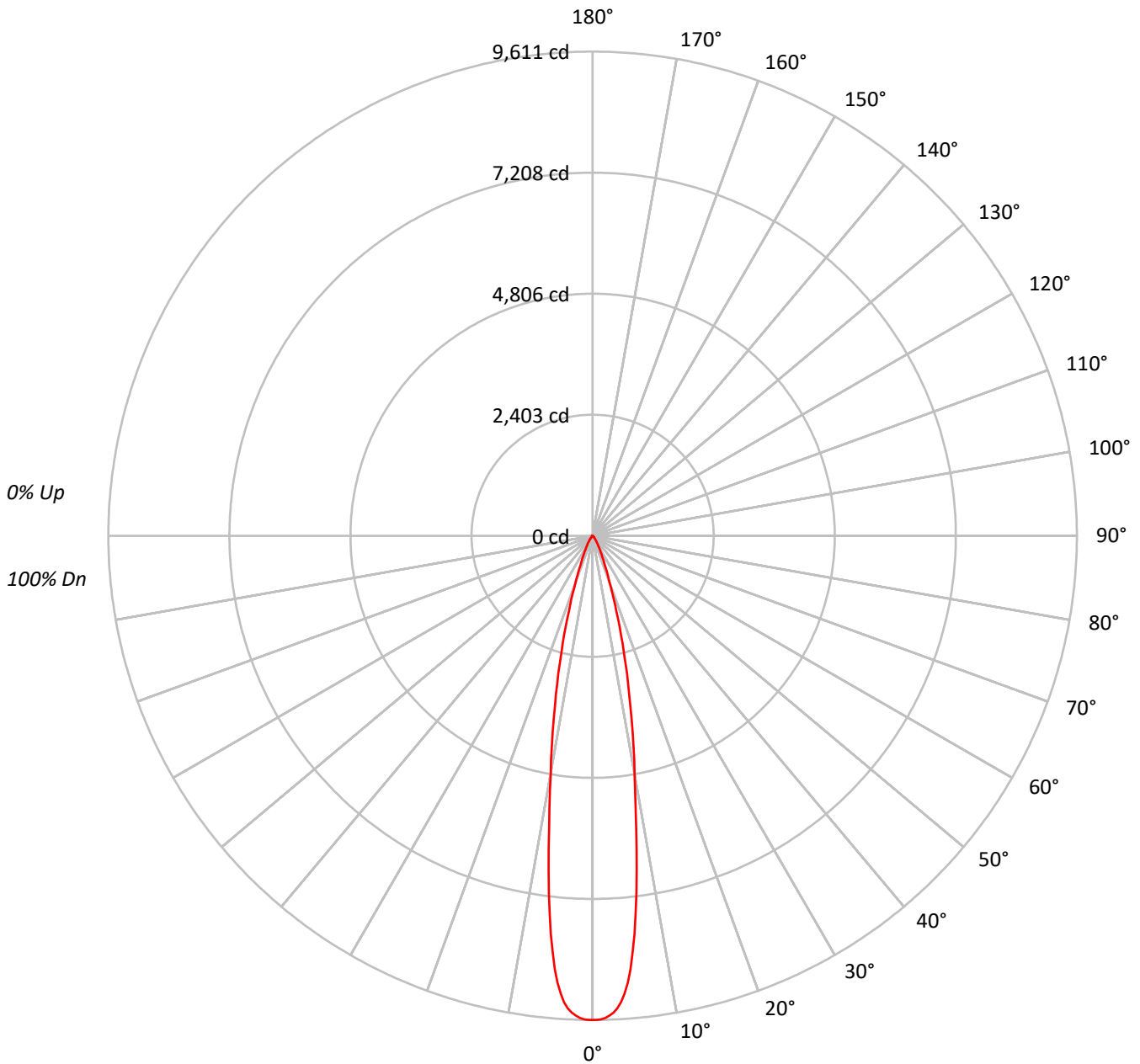
Downlight



TEST NUMBER: P743975

CATALOG NUMBER: LD4D20D010-EU4DR2015309030-4LBSQW1MW

Luminous Intensity Polar Plot





TEST NUMBER: P743975

CATALOG NUMBER: LD4D20D010-EU4DR2015309030-4LBSQW1MW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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																			
1	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97	97	97																	
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	94	94	94																	
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	91	91	91																	
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88	88	88																	
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85	85	85																	
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83	83	83																	
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	81	81	81																	
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	79	79																	
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77	77	77																	
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	75	75	75																	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1050149
5°	947432
10°	531754
15°	270300
20°	114436
25°	52828
30°	27970
35°	15072
40°	8059
45°	4759
50°	2771
55°	1467
60°	940
65°	672
70°	288
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4759 cd/sqm



TEST NUMBER: P743975

CATALOG NUMBER: LD4D20D010-EU4DR2015309030-4LBSQW1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	684.3	40.5
10°-20°	673.8	39.9
20°-30°	220.1	13.0
30°-40°	74.9	4.4
40°-50°	25.2	1.5
50°-60°	7.6	0.5
60°-70°	2.5	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°	1578.3	93.5
0°-40°	1653.2	97.9
0°-60°	1686.0	99.8
0°-90°	1688.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1688.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9611	
5°	8638	684
15°	2390	674
25°	438	220
35°	113	75
45°	31	25
55°	8	8
65°	3	3
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P743975

CATALOG NUMBER: LD4D20D010-EU4DR2015309030-4LBSQW1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	9611.4
0.5°	9611.4
1°	9599.4
1.5°	9575.5
2°	9531.8
2.5°	9473.6
3°	9391.4
3.5°	9276.8
4°	9106.4
4.5°	8899.3
5°	8638.3
5.5°	8295.1
6°	7943.3
6.5°	7540.2
7°	7145.6
7.5°	6683.5
8°	6270.9
8.5°	5855.8
9°	5472.4
9.5°	5120.7
10°	4792.9
12.5°	3441.4
15°	2389.6
17.5°	1561.1
20°	984.2
22.5°	637.6
25°	438.2
27.5°	308.1
30°	221.7
32.5°	159.2
35°	113.0
37.5°	78.7
40°	56.5
42.5°	41.1
45°	30.8
47.5°	24.0
50°	16.3
52.5°	10.3
55°	7.7
57.5°	6.0
60°	4.3
62.5°	3.4
65°	2.6



TEST NUMBER: P743975
CATALOG NUMBER: LD4D20D010-EU4DR2015309030-4LBSQW1MW

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





67.5°		1.7
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)