

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: P743989

Luminaire Tested: LD4D20D010-EU4DR2015309040-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743989
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-EU4DR2015309040-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1981.1 lumens
Efficiency: N/A
Efficacy: 85.8 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

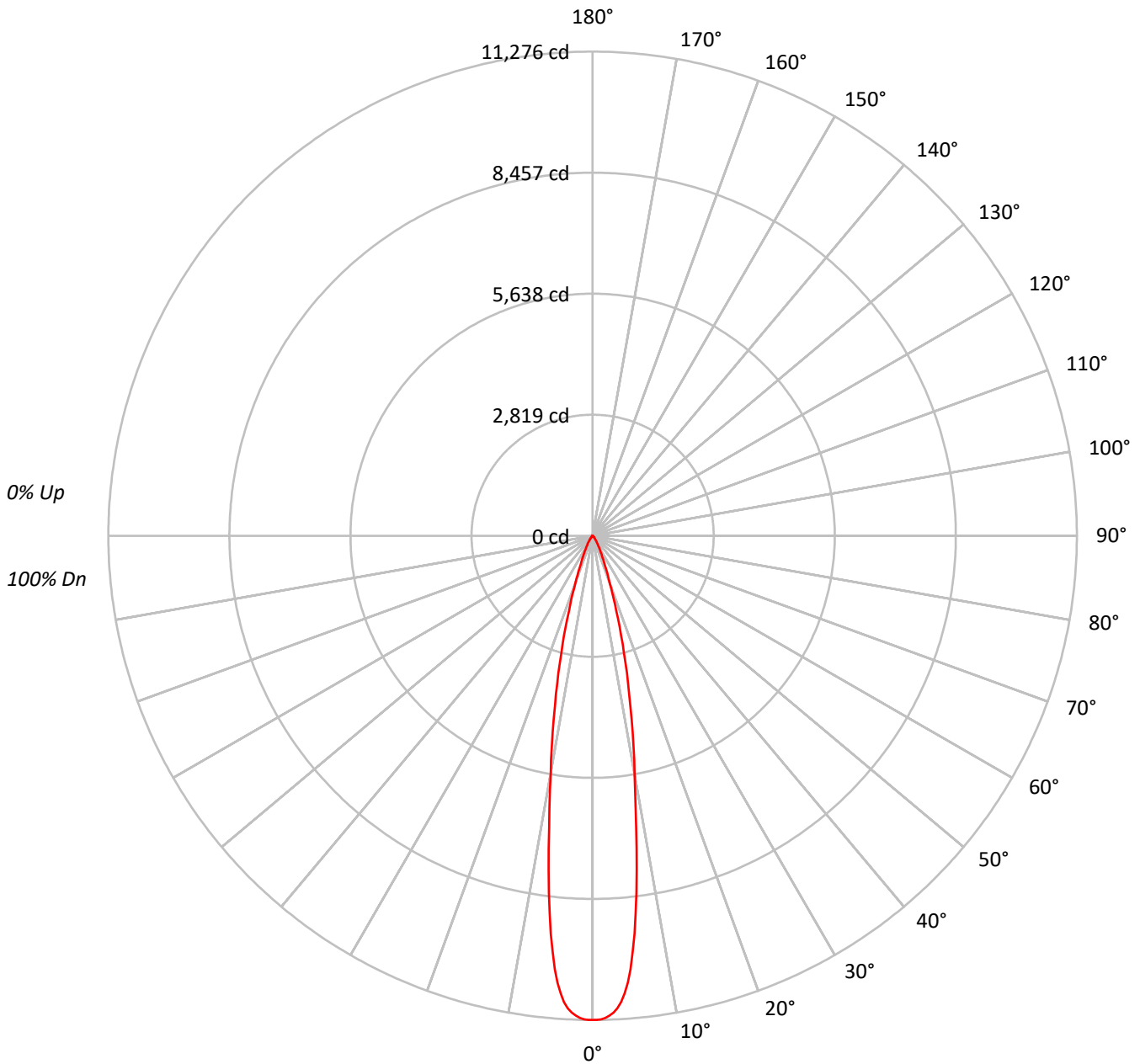


Downlight



TEST NUMBER: P743989
CATALOG NUMBER: LD4D20D010-EU4DR2015309040-4LBCSSQMB

Luminous Intensity Polar Plot





TEST NUMBER: P743989
 CATALOG NUMBER: LD4D20D010-EU4DR2015309040-4LBCSSQMB

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	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	94																										
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°	1232068
5°	1111555
10°	623862
15°	317118
20°	134272
25°	61978
30°	32815
35°	17673
40°	9456
45°	5578
50°	3247
55°	1714
60°	1093
65°	776
70°	319
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5578 cd/sqm



TEST NUMBER: P743989

CATALOG NUMBER: LD4D20D010-EU4DR2015309040-4LBCSSQMB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	802.9	40.5
10°-20°	790.6	39.9
20°-30°	258.3	13.0
30°-40°	87.9	4.4
40°-50°	29.6	1.5
50°-60°	8.9	0.4
60°-70°	3.0	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°	1851.7	93.5
0°-40°	1939.6	97.9
0°-60°	1978.1	99.8
0°-90°	1981.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1981.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11276	
5°	10135	803
15°	2804	791
25°	514	258
35°	132	88
45°	36	30
55°	9	9
65°	3	3
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P743989

CATALOG NUMBER: LD4D20D010-EU4DR2015309040-4LBCSSQMB

CANDELA DISTRIBUTION (FULL):

0°	
0°	11276.4
0.5°	11276.4
1°	11262.4
1.5°	11234.2
2°	11183.0
2.5°	11114.7
3°	11018.4
3.5°	10883.8
4°	10684.0
4.5°	10441.0
5°	10134.7
5.5°	9732.1
6°	9319.4
6.5°	8846.4
7°	8383.5
7.5°	7841.3
8°	7357.3
8.5°	6870.3
9°	6420.4
9.5°	6007.7
10°	5623.1
12.5°	4037.6
15°	2803.5
17.5°	1831.5
20°	1154.8
22.5°	748.1
25°	514.1
27.5°	361.5
30°	260.1
32.5°	186.8
35°	132.5
37.5°	92.4
40°	66.3
42.5°	48.2
45°	36.1
47.5°	28.1
50°	19.1
52.5°	12.0
55°	9.0
57.5°	7.0
60°	5.0
62.5°	4.0
65°	3.0



TEST NUMBER: P743989
CATALOG NUMBER: LD4D20D010-EU4DR2015309040-4LBCSSQMB

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°		2.0
70°		1.0

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

Scaled Data Report



(END OF REPORT)