

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: P738925

Luminaire Tested: LD4D02D010-EU4DR200210IC9030-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P738925
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: LD4D02D010-EU4DR200210IC9030-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 345.1 lumens
Efficiency: N/A
Efficacy: 67.7 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): 5.1
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



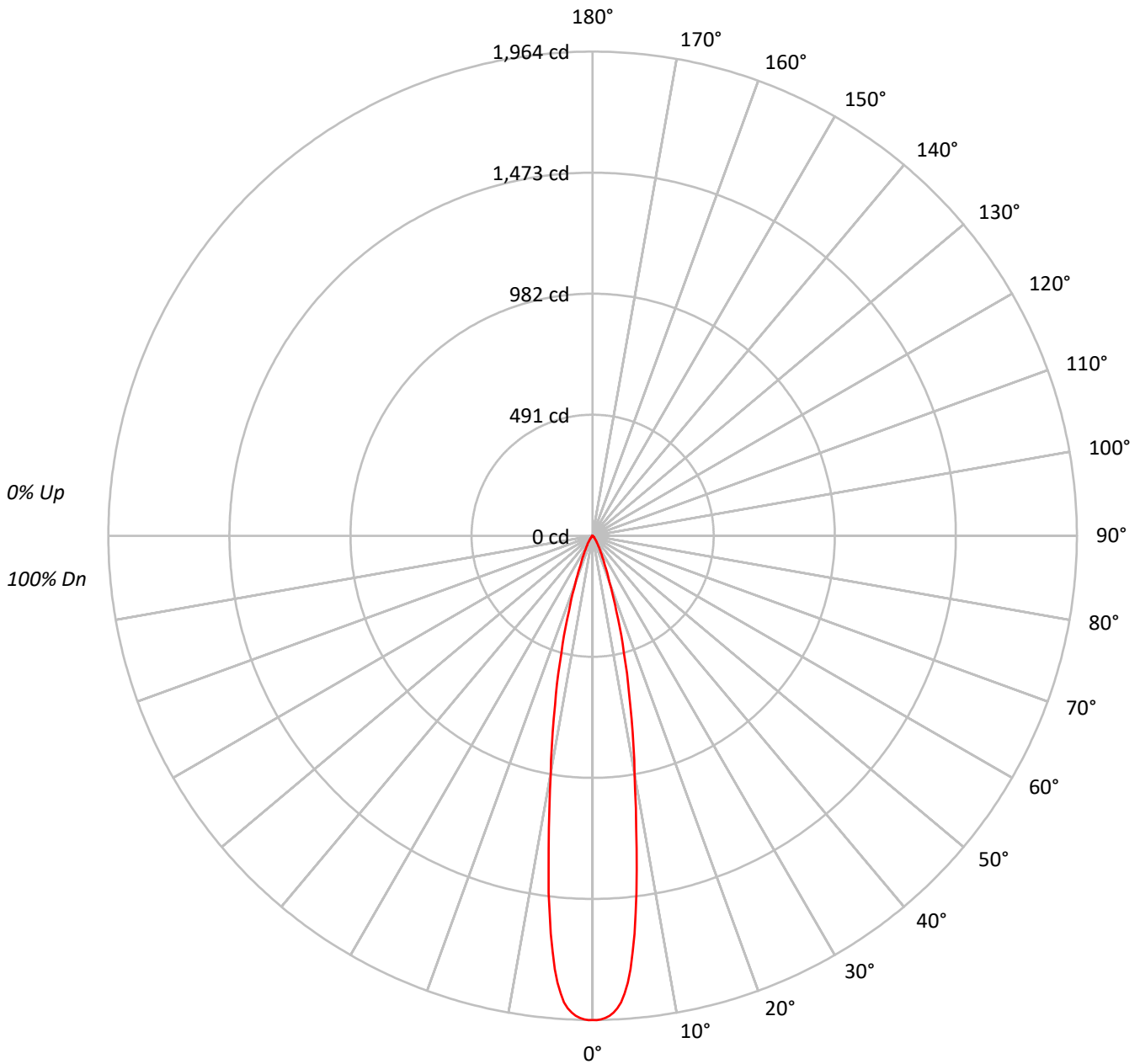
Downlight



TEST NUMBER: P738925

CATALOG NUMBER: LD4D02D010-EU4DR200210IC9030-4LBCSSQMB

Luminous Intensity Polar Plot





TEST NUMBER: P738925

CATALOG NUMBER: LD4D02D010-EU4DR200210IC9030-4LBCSSQMB

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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100															
1	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97	97	98	98	97															
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	94	94	98	96	95															
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	91	91	95	93	92															
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88	88	93	91	89															
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85	85	91	88	86															
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83	83	88	86	84															
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	81	81	86	84	82															
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	79	84	82	80															
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77	77	82	80	78															
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	75	75	81	78	76															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	214643
5°	193648
10°	108683
15°	55245
20°	23394
25°	10802
30°	5715
35°	3081
40°	1640
45°	973
50°	561
55°	305
60°	197
65°	129
70°	64
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 973 cd/sqm



TEST NUMBER: P738925

CATALOG NUMBER: LD4D02D010-EU4DR200210IC9030-4LBCSSQMB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.9	40.5
10°-20°	137.7	39.9
20°-30°	45.0	13.0
30°-40°	15.3	4.4
40°-50°	5.1	1.5
50°-60°	1.6	0.4
60°-70°	0.5	0.1
70°-80°	0.0	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°	322.6	93.5
0°-40°	337.9	97.9
0°-60°	344.6	99.8
0°-90°	345.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	345.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1964	
5°	1766	140
15°	488	138
25°	90	45
35°	23	15
45°	6	5
55°	2	2
65°	0	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P738925

CATALOG NUMBER: LD4D02D010-EU4DR200210IC9030-4LBCSSQMB

CANDELA DISTRIBUTION (FULL):

	0°
0°	1964.5
0.5°	1964.5
1°	1962.1
1.5°	1957.2
2°	1948.3
2.5°	1936.4
3°	1919.6
3.5°	1896.1
4°	1861.3
4.5°	1819.0
5°	1765.6
5.5°	1695.5
6°	1623.6
6.5°	1541.2
7°	1460.6
7.5°	1366.1
8°	1281.8
8.5°	1196.9
9°	1118.5
9.5°	1046.6
10°	979.6
12.5°	703.4
15°	488.4
17.5°	319.1
20°	201.2
22.5°	130.3
25°	89.6
27.5°	63.0
30°	45.3
32.5°	32.5
35°	23.1
37.5°	16.1
40°	11.5
42.5°	8.4
45°	6.3
47.5°	4.9
50°	3.3
52.5°	2.1
55°	1.6
57.5°	1.2
60°	0.9
62.5°	0.7
65°	0.5



TEST NUMBER: P738925

CATALOG NUMBER: LD4D02D010-EU4DR200210IC9030-4LBCSSQMB

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





— 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°		0.3
70°		0.2

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

Scaled Data Report



(END OF REPORT)