

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: P738928

Luminaire Tested: LD4D02D010-EU4DR200210IC9030-4LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P738928
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-EU4DR200210IC9030-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 316.6 lumens
Efficiency: N/A
Efficacy: 62.1 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): 5.1
Input Voltage (V): NR
Input Current (A_{in}): 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



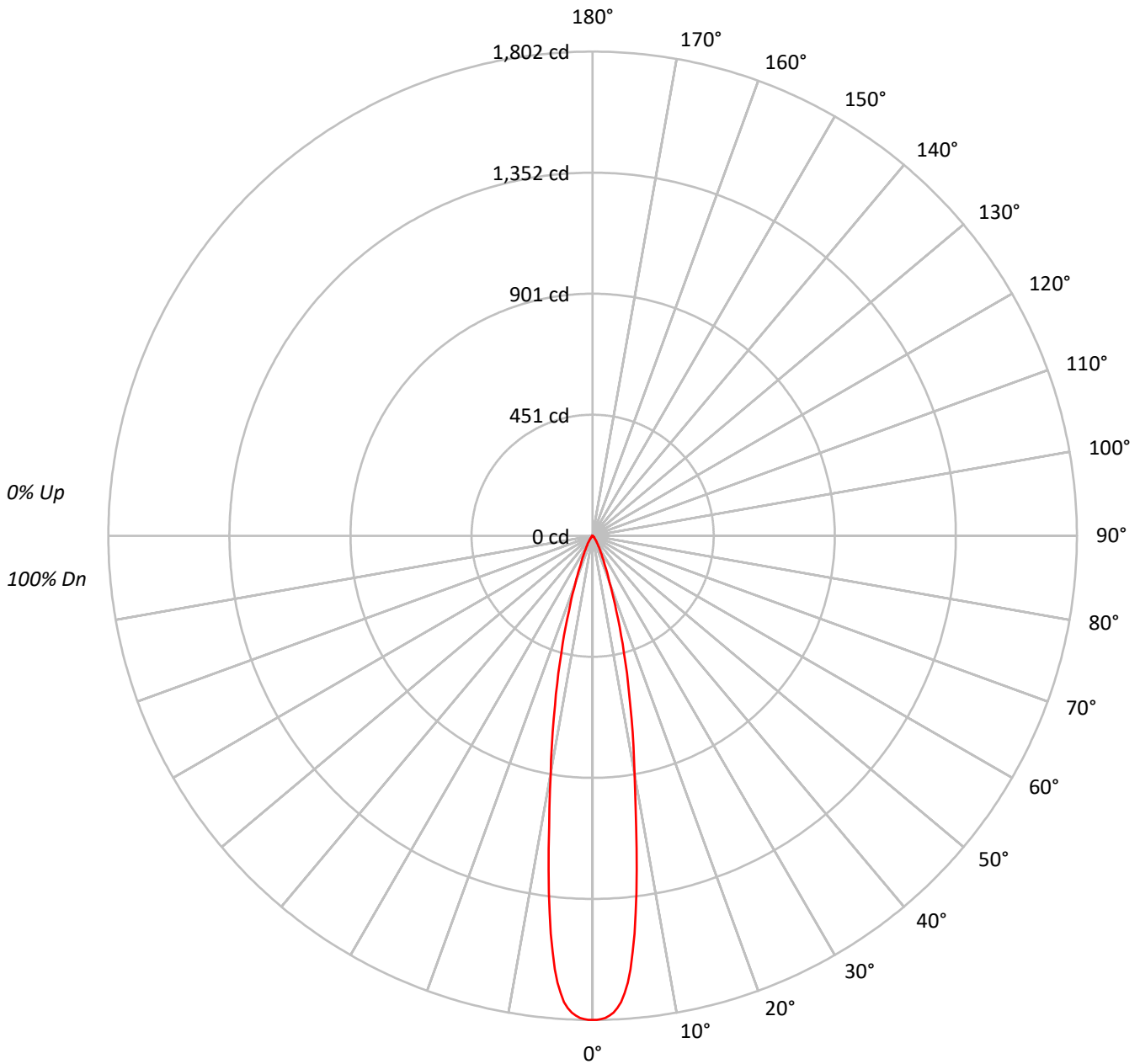
Downlight



TEST NUMBER: P738928

CATALOG NUMBER: LD4D02D010-EU4DR200210IC9030-4LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P738928

CATALOG NUMBER: LD4D02D010-EU4DR200210IC9030-4LBDP1B

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	196877
5°	177613
10°	99685
15°	50676
20°	21452
25°	9910
30°	5248
35°	2828
40°	1512
45°	896
50°	510
55°	267
60°	175
65°	129
70°	64
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 896 cd/sqm



TEST NUMBER: P738928

CATALOG NUMBER: LD4D02D010-EU4DR200210IC9030-4LBDP1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.3	40.5
10°-20°	126.3	39.9
20°-30°	41.3	13.0
30°-40°	14.1	4.4
40°-50°	4.7	1.5
50°-60°	1.4	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°	295.9	93.5
0°-40°	310.0	97.9
0°-60°	316.1	99.8
0°-90°	316.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	316.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1802	
5°	1619	128
15°	448	126
25°	82	41
35°	21	14
45°	6	5
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P738928

CATALOG NUMBER: LD4D02D010-EU4DR200210IC9030-4LBDP1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	1801.9
0.5°	1801.9
1°	1799.6
1.5°	1795.1
2°	1787.0
2.5°	1776.0
3°	1760.6
3.5°	1739.1
4°	1707.2
4.5°	1668.4
5°	1619.4
5.5°	1555.1
6°	1489.2
6.5°	1413.6
7°	1339.6
7.5°	1253.0
8°	1175.6
8.5°	1097.8
9°	1025.9
9.5°	960.0
10°	898.5
12.5°	645.2
15°	448.0
17.5°	292.7
20°	184.5
22.5°	119.5
25°	82.2
27.5°	57.8
30°	41.6
32.5°	29.8
35°	21.2
37.5°	14.8
40°	10.6
42.5°	7.7
45°	5.8
47.5°	4.5
50°	3.0
52.5°	1.9
55°	1.4
57.5°	1.1
60°	0.8
62.5°	0.6
65°	0.5



TEST NUMBER: P738928

CATALOG NUMBER: LD4D02D010-EU4DR200210IC9030-4LBDP1B

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)