

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: P742240

Luminaire Tested: LD4D10D010-EU4DR350210IC9050-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P742240
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D10D010-EU4DR350210IC9050-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 35° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 984.7 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.54
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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

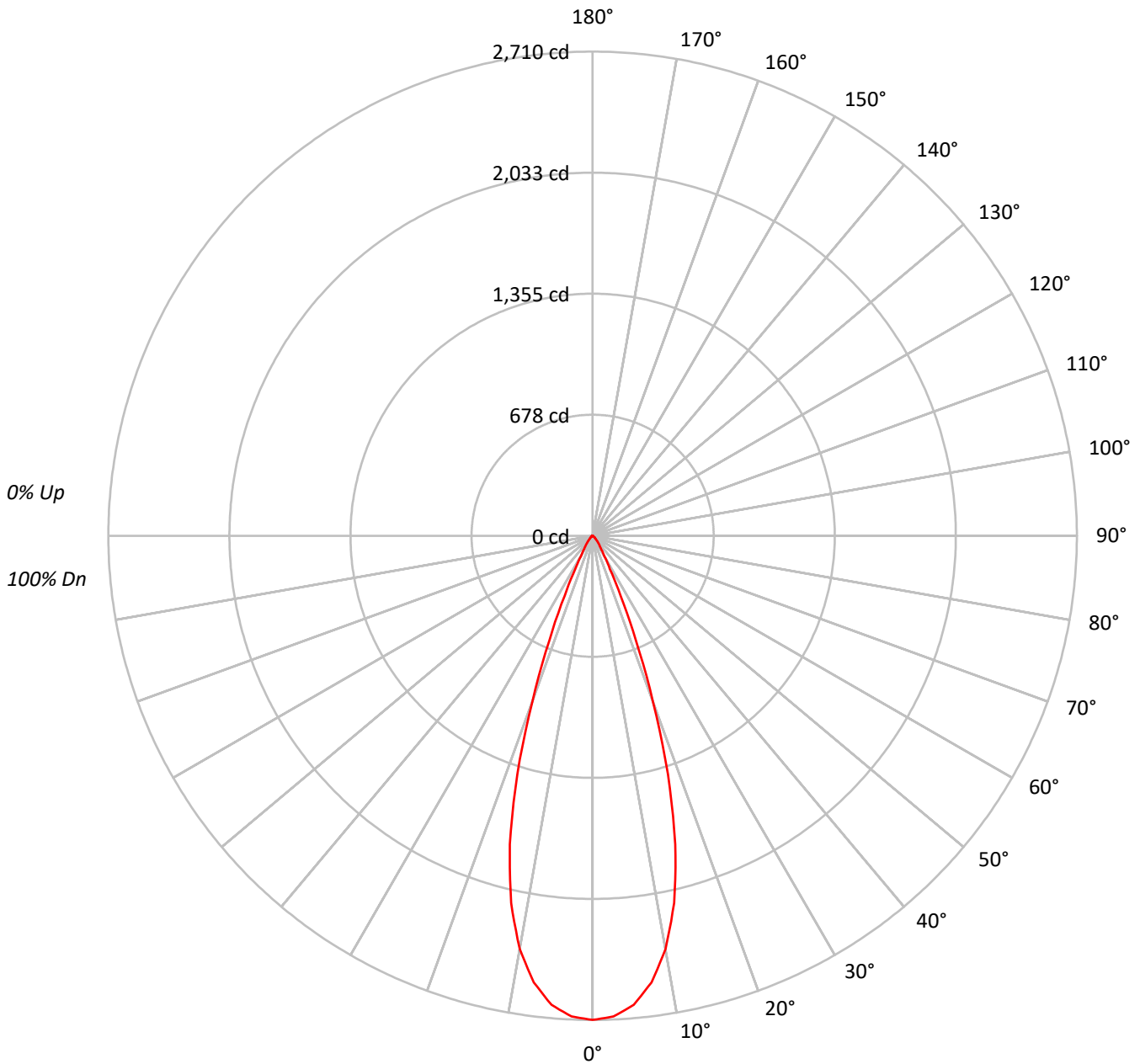


Downlight



TEST NUMBER: P742240
CATALOG NUMBER: LD4D10D010-EU4DR350210IC9050-4LBCSSQMB

Luminous Intensity Polar Plot





TEST NUMBER: P742240

CATALOG NUMBER: LD4D10D010-EU4DR350210IC9050-4LBCSSQMB

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	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	100	100
1	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	98	96	96	96	96
2	110	106	103	101	108	105	102	99	102	99	97	99	97	95	96	95	93	92	92	92	92
3	106	101	97	94	105	100	96	93	97	95	92	95	93	91	93	91	89	88	88	88	88
4	103	97	92	89	101	96	92	89	94	90	88	92	89	87	90	88	86	84	84	84	84
5	99	93	88	85	98	92	87	84	90	86	84	89	85	83	87	84	82	81	81	81	81
6	96	89	84	81	94	88	84	81	87	83	80	85	82	80	84	81	79	78	78	78	78
7	93	85	81	78	91	85	80	77	84	80	77	83	79	77	82	79	76	75	75	75	75
8	90	82	78	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72	72	72	72
9	87	79	75	72	86	79	75	72	78	74	71	77	74	71	77	73	71	70	70	70	70
10	84	77	72	69	83	76	72	69	76	72	69	75	71	69	74	71	69	68	68	68	68

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	296042
5°	289079
10°	260546
15°	202227
20°	114692
25°	44618
30°	16654
35°	9123
40°	5962
45°	3631
50°	2312
55°	1638
60°	1180
65°	646
70°	64
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3631 cd/sqm



TEST NUMBER: P742240

CATALOG NUMBER: LD4D10D010-EU4DR350210IC9050-4LBCSSQMB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.4	24.6
10°-20°	473.3	48.1
20°-30°	193.0	19.6
30°-40°	46.2	4.7
40°-50°	19.3	2.0
50°-60°	8.0	0.8
60°-70°	2.5	0.3
70°-80°	0.1	0.0
80°-90°	0.1	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°	908.7	92.3
0°-40°	954.9	97.0
0°-60°	982.1	99.7
0°-90°	984.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	984.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2710	
5°	2636	242
15°	1788	473
25°	370	193
35°	68	46
45°	24	19
55°	9	8
65°	2	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P742240

CATALOG NUMBER: LD4D10D010-EU4DR350210IC9050-4LBCSSQMB

CANDELA DISTRIBUTION (FULL):

	0°
0°	2709.5
2.5°	2693.3
5°	2635.7
7.5°	2521.1
10°	2348.4
12.5°	2105.1
15°	1787.8
17.5°	1399.6
20°	986.4
22.5°	629.0
25°	370.1
27.5°	209.2
30°	132.0
32.5°	92.6
35°	68.4
37.5°	52.9
40°	41.8
42.5°	32.2
45°	23.5
47.5°	17.6
50°	13.6
52.5°	10.8
55°	8.6
57.5°	6.9
60°	5.4
62.5°	4.0
65°	2.5
67.5°	0.9
70°	0.2
72.5°	0.2
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.2
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



(END OF REPORT)