

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: P742011

Luminaire Tested: LD4D10D010-EU4DR200210IC9050-4LBDP1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P742011
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: LD4D10D010-EU4DR200210IC9050-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1192.1 lumens
Efficiency: N/A
Efficacy: 101.9 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): 11.7
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



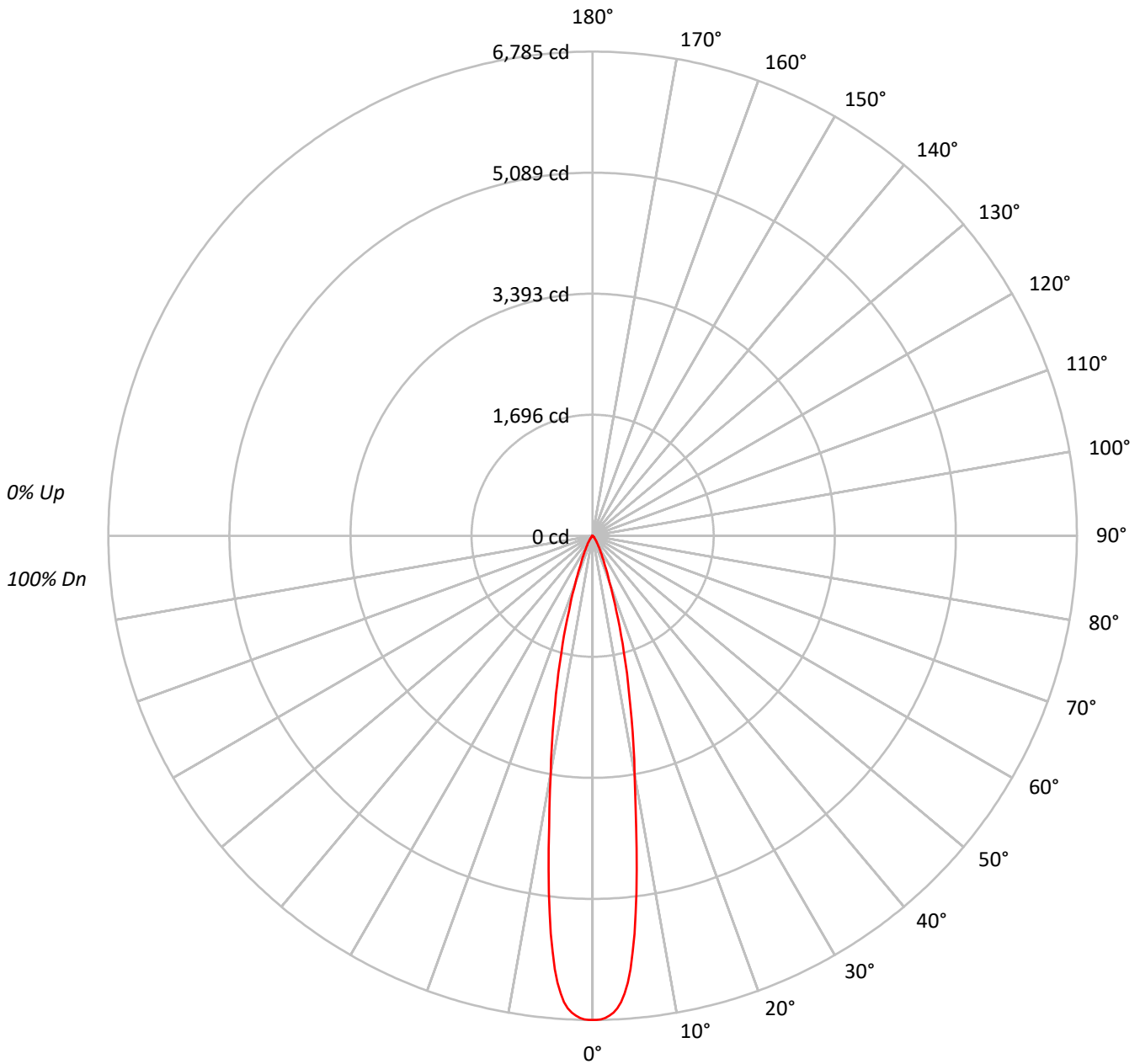
Downlight



TEST NUMBER: P742011

CATALOG NUMBER: LD4D10D010-EU4DR200210IC9050-4LBDP1LI

Luminous Intensity Polar Plot





TEST NUMBER: P742011

CATALOG NUMBER: LD4D10D010-EU4DR200210IC9050-4LBDP1LI

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	741345
5°	668828
10°	375387
15°	190814
20°	80786
25°	37288
30°	19745
35°	10644
40°	5691
45°	3368
50°	1955
55°	1029
60°	656
65°	465
70°	192
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3368 cd/sqm



TEST NUMBER: P742011

CATALOG NUMBER: LD4D10D010-EU4DR200210IC9050-4LBDP1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.1	40.5
10°-20°	475.7	39.9
20°-30°	155.4	13.0
30°-40°	52.9	4.4
40°-50°	17.8	1.5
50°-60°	5.4	0.4
60°-70°	1.8	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°	1114.2	93.5
0°-40°	1167.1	97.9
0°-60°	1190.2	99.8
0°-90°	1192.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1192.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6785	
5°	6098	483
15°	1687	476
25°	309	155
35°	80	53
45°	22	18
55°	5	5
65°	2	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P742011

CATALOG NUMBER: LD4D10D010-EU4DR200210IC9050-4LBDP1LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	6785.1
0.5°	6785.1
1°	6776.6
1.5°	6759.7
2°	6728.9
2.5°	6687.8
3°	6629.8
3.5°	6548.8
4°	6428.6
4.5°	6282.4
5°	6098.1
5.5°	5855.8
6°	5607.5
6.5°	5322.9
7°	5044.4
7.5°	4718.1
8°	4426.9
8.5°	4133.9
9°	3863.2
9.5°	3614.9
10°	3383.5
12.5°	2429.5
15°	1686.9
17.5°	1102.0
20°	694.8
22.5°	450.1
25°	309.3
27.5°	217.5
30°	156.5
32.5°	112.4
35°	79.8
37.5°	55.6
40°	39.9
42.5°	29.0
45°	21.8
47.5°	16.9
50°	11.5
52.5°	7.3
55°	5.4
57.5°	4.2
60°	3.0
62.5°	2.4
65°	1.8



TEST NUMBER: P742011

CATALOG NUMBER: LD4D10D010-EU4DR200210IC9050-4LBDP1LI

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°		1.2
70°		0.6

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

Scaled Data Report



(END OF REPORT)