

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: P742166

Luminaire Tested: LD4D10D010-EU4DR300210IC9050-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P742166
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D10D010-EU4DR300210IC9050-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1046.3 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' 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



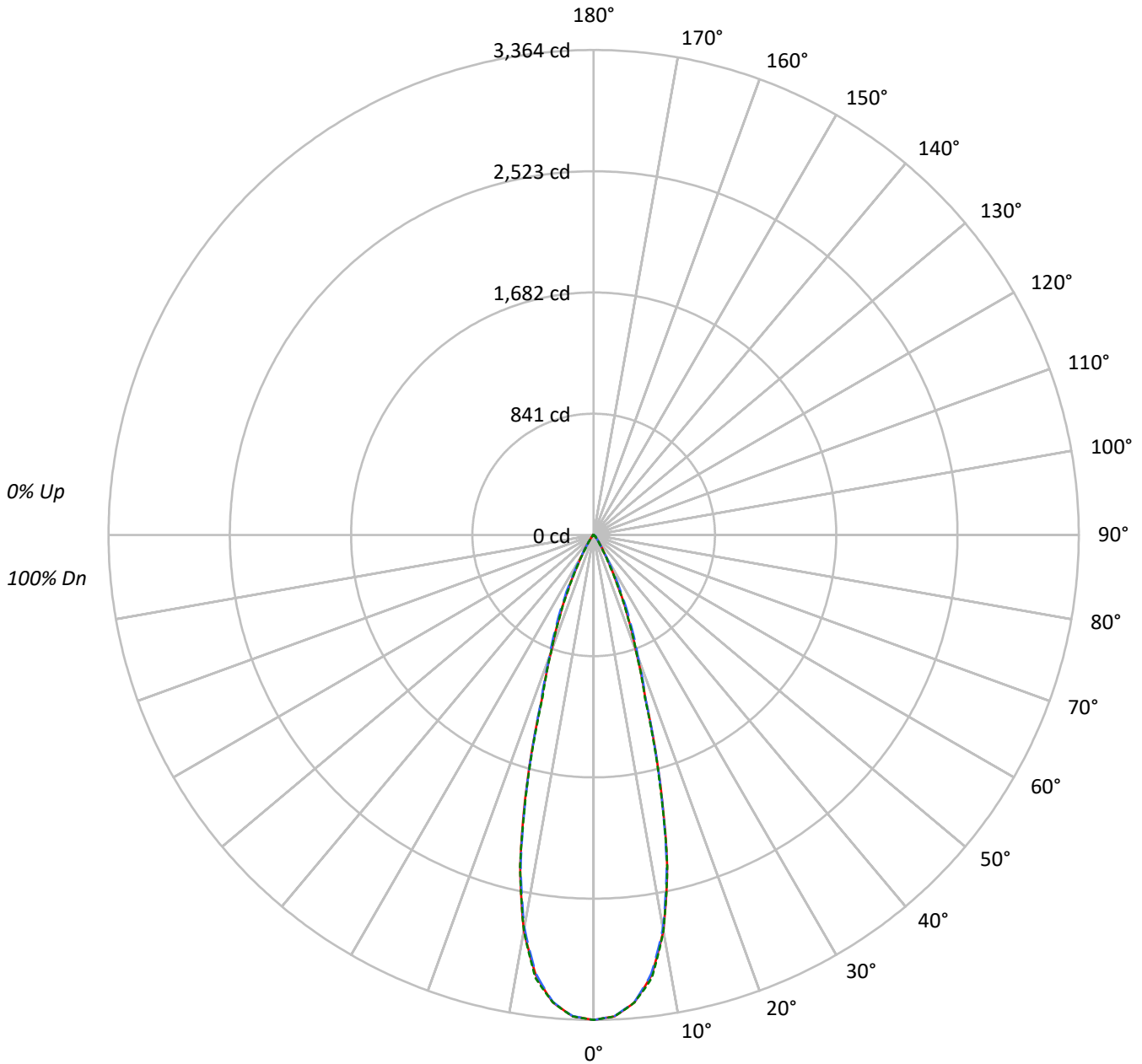
Downlight



TEST NUMBER: P742166

CATALOG NUMBER: LD4D10D010-EU4DR300210IC9050-4LBDP1H

Luminous Intensity Polar Plot





TEST NUMBER: P742166

CATALOG NUMBER: LD4D10D010-EU4DR300210IC9050-4LBDP1H

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																			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	257507	257507	257507
5°	250116	249824	250124
10°	216633	215109	216586
15°	141347	140586	139873
20°	70288	72919	70190
25°	35404	39922	34678
30°	14177	15441	12347
35°	6578	6298	5279
40°	2838	3157	2678
45°	2003	2490	2024
50°	691	1810	726
55°	400	747	427
60°	276	321	276
65°	181	181	181
70°	112	67	112
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 2490 cd/sqm



TEST NUMBER: P742166

CATALOG NUMBER: LD4D10D010-EU4DR300210IC9050-4LBDP1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.8	28.3
10°-20°	476.4	45.5
20°-30°	205.9	19.7
30°-40°	46.9	4.5
40°-50°	16.1	1.5
50°-60°	3.9	0.4
60°-70°	1.0	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°	978.1	93.5
0°-40°	1025.1	98.0
0°-60°	1045.1	99.9
0°-90°	1046.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1046.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3364	3364	3364	3364	3364	
5°	3255	3252	3251	3258	3255	296
15°	1784	1762	1774	1768	1765	478
25°	419	435	473	424	411	201
35°	70	72	67	67	56	48
45°	18	23	23	23	19	13
55°	3	3	6	3	3	3
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P742166

CATALOG NUMBER: LD4D10D010-EU4DR300210IC9050-4LBDP1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3364.2	3364.2	3364.2	3364.2	3364.2
2.5°	3341.9	3339.6	3340.9	3342.5	3343.2
5°	3255.2	3252.0	3251.4	3258.1	3255.3
7.5°	3080.2	3075.8	3069.0	3084.4	3098.7
10°	2787.2	2782.3	2767.6	2774.9	2786.6
12.5°	2354.7	2338.6	2338.3	2361.4	2358.3
15°	1783.7	1762.2	1774.1	1768.3	1765.1
17.5°	1199.5	1191.2	1207.0	1202.3	1181.7
20°	862.9	865.0	895.2	880.1	861.7
22.5°	629.6	637.4	673.2	634.1	619.7
25°	419.2	435.0	472.7	424.0	410.6
27.5°	257.8	265.1	303.3	254.5	247.3
30°	160.4	156.8	174.7	150.0	139.7
32.5°	105.2	100.6	106.4	95.5	87.2
35°	70.4	71.8	67.4	66.9	56.5
37.5°	43.9	50.5	44.6	47.6	36.3
40°	28.4	36.7	31.6	34.8	26.8
42.5°	23.3	28.2	26.0	27.6	23.8
45°	18.5	23.0	23.0	23.0	18.7
47.5°	10.3	15.4	19.7	15.7	10.9
50°	5.8	7.7	15.2	8.1	6.1
52.5°	4.0	4.5	10.4	4.6	4.1
55°	3.0	3.2	5.6	3.3	3.2
57.5°	2.3	2.5	3.0	2.5	2.3
60°	1.8	1.8	2.1	2.0	1.8
62.5°	1.3	1.3	1.5	1.3	1.3
65°	1.0	1.0	1.0	1.0	1.0
67.5°	0.5	0.7	0.7	0.7	0.7
70°	0.5	0.3	0.3	0.3	0.5
72.5°	0.3	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	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° - - 45°-225° - - - - 90°-270°

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)