

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: P742134

Luminaire Tested: LD4D10D010-EU4DR300210IC9030-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P742134
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-EU4DR300210IC9030-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 741.1 lumens
Efficiency: N/A
Efficacy: 63.3 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

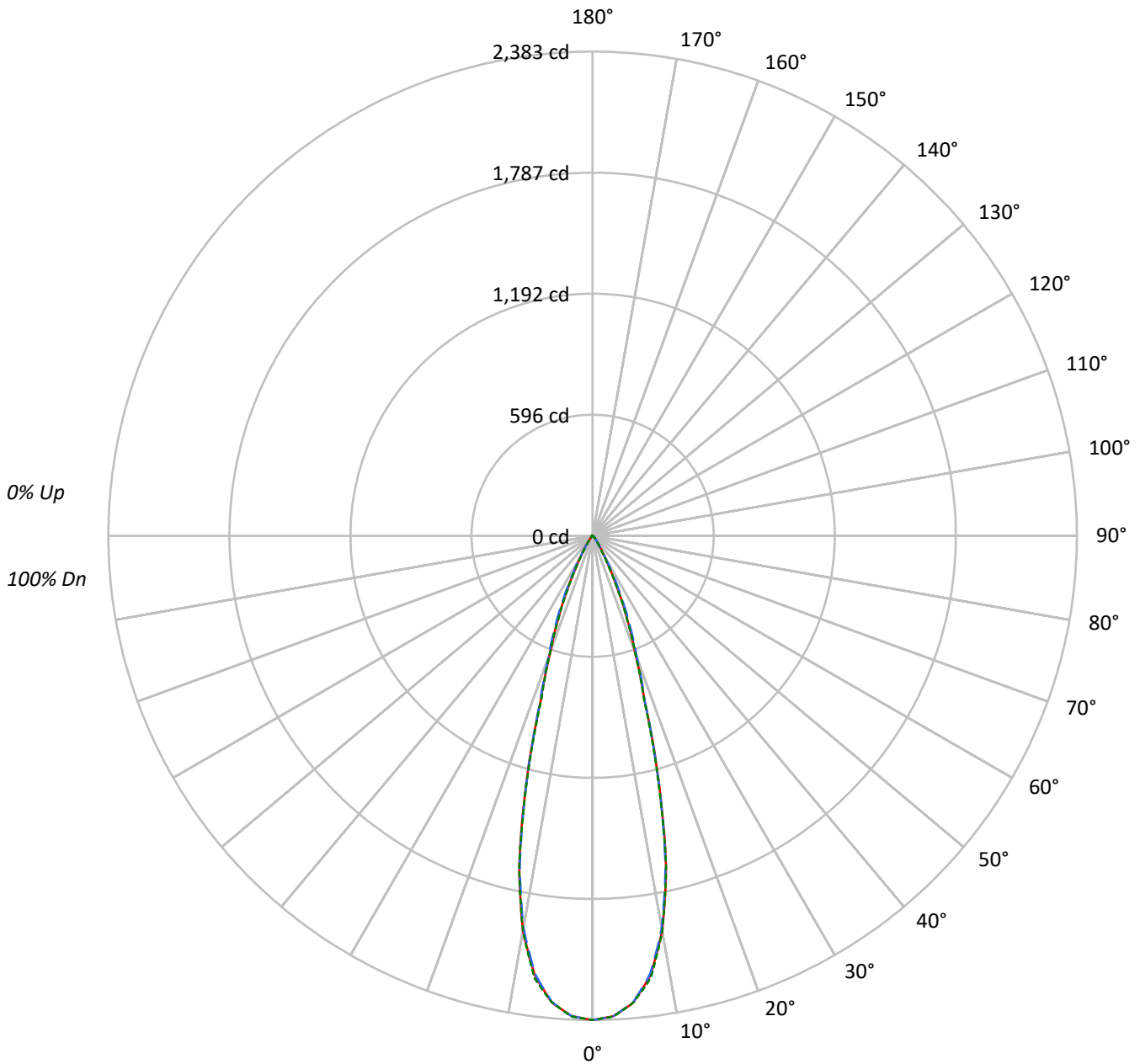


Downlight



TEST NUMBER: P742134
CATALOG NUMBER: LD4D10D010-EU4DR300210IC9030-4LBSQW1B

Luminous Intensity Polar Plot





TEST NUMBER: P742134

CATALOG NUMBER: LD4D10D010-EU4DR300210IC9030-4LBSQW1B

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°	182403	182403	182403
5°	177160	176953	177168
10°	153451	152371	153412
15°	100116	99585	99086
20°	49786	51651	49721
25°	25084	28276	24560
30°	10041	10942	8750
35°	4653	4457	3738
40°	2008	2228	1898
45°	1418	1764	1429
50°	488	1286	524
55°	280	534	294
60°	199	230	199
65°	127	127	127
70°	67	45	67
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 1764 cd/sqm



TEST NUMBER: P742134

CATALOG NUMBER: LD4D10D010-EU4DR300210IC9030-4LBSQW1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.5	28.3
10°-20°	337.5	45.5
20°-30°	145.8	19.7
30°-40°	33.2	4.5
40°-50°	11.4	1.5
50°-60°	2.8	0.4
60°-70°	0.7	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°	692.9	93.5
0°-40°	726.1	98.0
0°-60°	740.3	99.9
0°-90°	741.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	741.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2383	2383	2383	2383	2383	
5°	2306	2304	2303	2308	2306	210
15°	1263	1248	1257	1252	1250	338
25°	297	308	335	300	291	142
35°	50	51	48	47	40	34
45°	13	16	16	16	13	9
55°	2	2	4	2	2	2
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	



TEST NUMBER: P742134

CATALOG NUMBER: LD4D10D010-EU4DR300210IC9030-4LBSQW1B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2383.0	2383.0	2383.0	2383.0	2383.0
2.5°	2367.1	2365.5	2366.5	2367.6	2368.1
5°	2305.7	2303.5	2303.0	2307.8	2305.8
7.5°	2181.9	2178.7	2173.9	2184.8	2195.0
10°	1974.3	1970.8	1960.4	1965.5	1973.8
12.5°	1667.9	1656.5	1656.3	1672.7	1670.4
15°	1263.4	1248.2	1256.7	1252.5	1250.4
17.5°	849.6	843.8	855.0	851.6	837.0
20°	611.2	612.7	634.1	623.4	610.4
22.5°	446.0	451.5	476.9	449.1	438.9
25°	297.0	308.2	334.8	300.3	290.8
27.5°	182.7	187.8	214.8	180.3	175.2
30°	113.6	111.0	123.8	106.2	99.0
32.5°	74.5	71.3	75.3	67.6	61.8
35°	49.8	50.9	47.7	47.4	40.0
37.5°	31.1	35.8	31.6	33.7	25.7
40°	20.1	26.0	22.3	24.7	19.0
42.5°	16.5	20.0	18.4	19.5	16.8
45°	13.1	16.3	16.3	16.3	13.2
47.5°	7.3	10.9	13.9	11.1	7.7
50°	4.1	5.5	10.8	5.7	4.4
52.5°	2.8	3.2	7.4	3.3	2.9
55°	2.1	2.2	4.0	2.3	2.2
57.5°	1.7	1.8	2.1	1.8	1.7
60°	1.3	1.3	1.5	1.4	1.3
62.5°	0.9	0.9	1.0	0.9	0.9
65°	0.7	0.7	0.7	0.7	0.7
67.5°	0.3	0.5	0.5	0.5	0.5
70°	0.3	0.2	0.2	0.2	0.3
72.5°	0.2	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	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)