

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



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: P749141

Luminaire Tested: LD4D50D010-EU4DR3040509040-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749141
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: LD4D50D010-EU4DR3040509040-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4999.0 lumens
Efficiency: N/A
Efficacy: 106.4 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

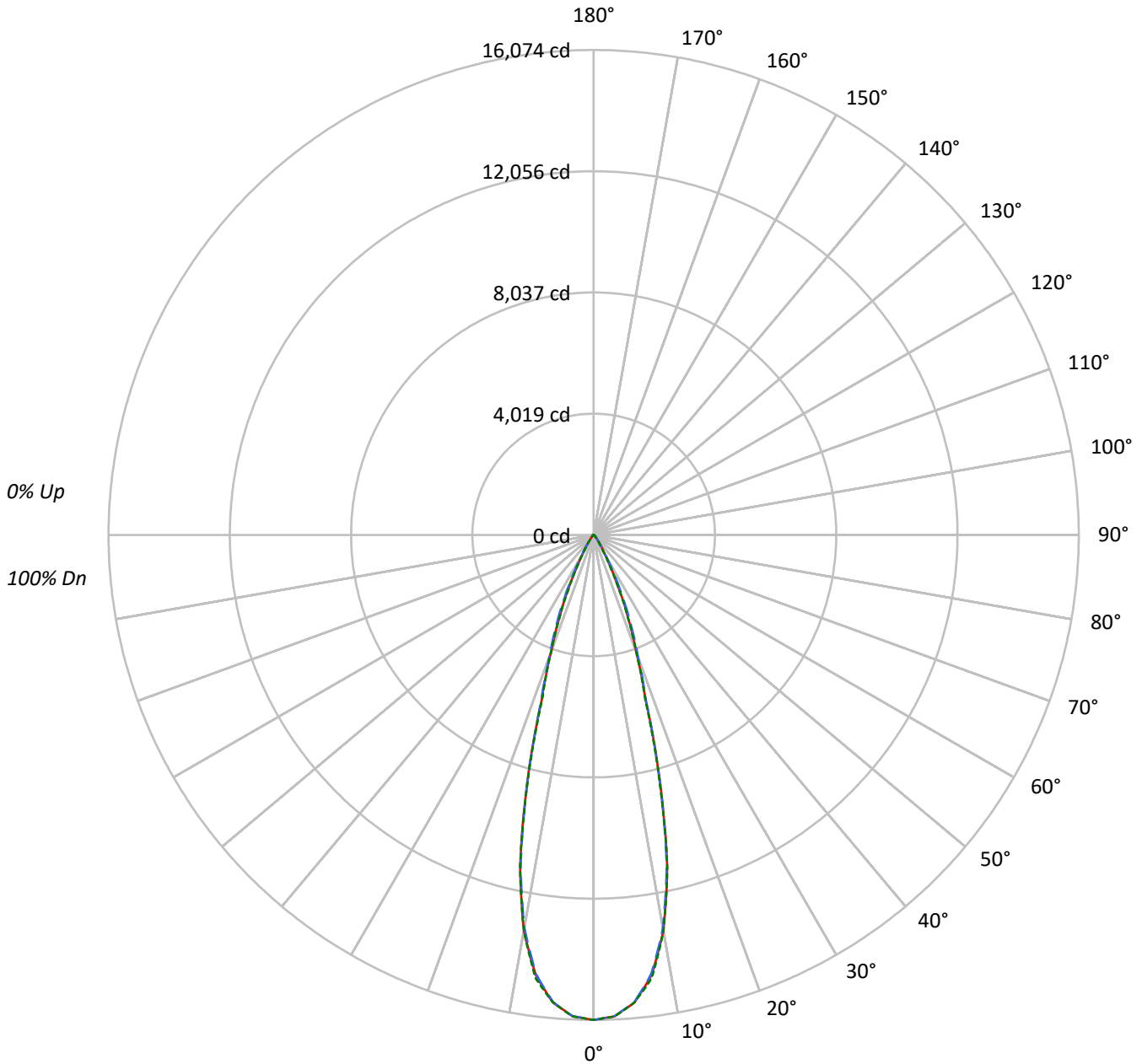
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P749141
CATALOG NUMBER: LD4D50D010-EU4DR3040509040-4LBDP1H

Luminous Intensity Polar Plot





TEST NUMBER: P749141

CATALOG NUMBER: LD4D50D010-EU4DR3040509040-4LBDP1H

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1230366	1230366	1230366
5°	1195042	1193652	1195104
10°	1035092	1027786	1034843
15°	675345	671716	668340
20°	335818	348419	335370
25°	169158	190753	165695
30°	67729	73801	59006
35°	31415	30088	25220
40°	13559	15058	12770
45°	9569	11875	9656
50°	3287	8645	3477
55°	1895	3576	2002
60°	1332	1577	1332
65°	851	851	851
70°	537	358	537
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 11875 cd/sqm



TEST NUMBER: P749141

CATALOG NUMBER: LD4D50D010-EU4DR3040509040-4LBDP1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1413.5	28.3
10°-20°	2276.4	45.5
20°-30°	983.7	19.7
30°-40°	224.2	4.5
40°-50°	77.0	1.5
50°-60°	18.8	0.4
60°-70°	4.9	0.1
70°-80°	0.5	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°	4673.6	93.5
0°-40°	4897.8	98.0
0°-60°	4993.6	99.9
0°-90°	4999.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4999.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16074	16074	16074	16074	16074	
5°	15553	15538	15535	15567	15554	1415
15°	8522	8420	8477	8449	8434	2282
25°	2003	2079	2259	2026	1962	959
35°	336	343	322	320	270	228
45°	88	110	110	110	89	63
55°	14	15	27	16	15	14
65°	5	5	5	5	5	5
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P749141

CATALOG NUMBER: LD4D50D010-EU4DR3040509040-4LBDP1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16074.1	16074.1	16074.1	16074.1	16074.1
2.5°	15967.5	15956.5	15962.8	15970.7	15973.8
5°	15553.2	15538.2	15535.1	15567.4	15554.0
7.5°	14717.5	14696.2	14663.8	14737.2	14805.9
10°	13317.5	13293.8	13223.5	13258.3	13314.3
12.5°	11250.6	11174.0	11172.5	11282.9	11268.0
15°	8522.4	8419.8	8476.6	8449.0	8434.0
17.5°	5731.0	5691.6	5767.3	5744.5	5645.8
20°	4122.7	4133.0	4277.4	4204.8	4117.2
22.5°	3008.4	3045.5	3216.7	3029.7	2961.0
25°	2002.9	2078.7	2258.6	2025.8	1961.9
27.5°	1231.9	1266.6	1448.9	1216.1	1181.4
30°	766.3	748.9	835.0	716.6	667.6
32.5°	502.7	480.6	508.2	456.1	416.7
35°	336.2	343.3	322.0	319.6	269.9
37.5°	209.9	241.5	213.1	227.3	173.6
40°	135.7	175.2	150.7	166.5	127.8
42.5°	111.3	135.0	123.9	131.8	113.6
45°	88.4	109.7	109.7	109.7	89.2
47.5°	48.9	73.4	93.9	75.0	52.1
50°	27.6	37.1	72.6	38.7	29.2
52.5°	18.9	21.3	49.7	22.1	19.7
55°	14.2	15.0	26.8	15.8	15.0
57.5°	11.0	11.8	14.2	11.8	11.0
60°	8.7	8.7	10.3	9.5	8.7
62.5°	6.3	6.3	7.1	6.3	6.3
65°	4.7	4.7	4.7	4.7	4.7
67.5°	2.4	3.2	3.2	3.2	3.2
70°	2.4	1.6	1.6	1.6	2.4
72.5°	1.6	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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)