

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: P749942

Luminaire Tested: LD4D55D010-EU4DR3055659050-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749942
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: LD4D55D010-EU4DR3055659050-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4785.6 lumens
Efficiency: N/A
Efficacy: 82.2 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

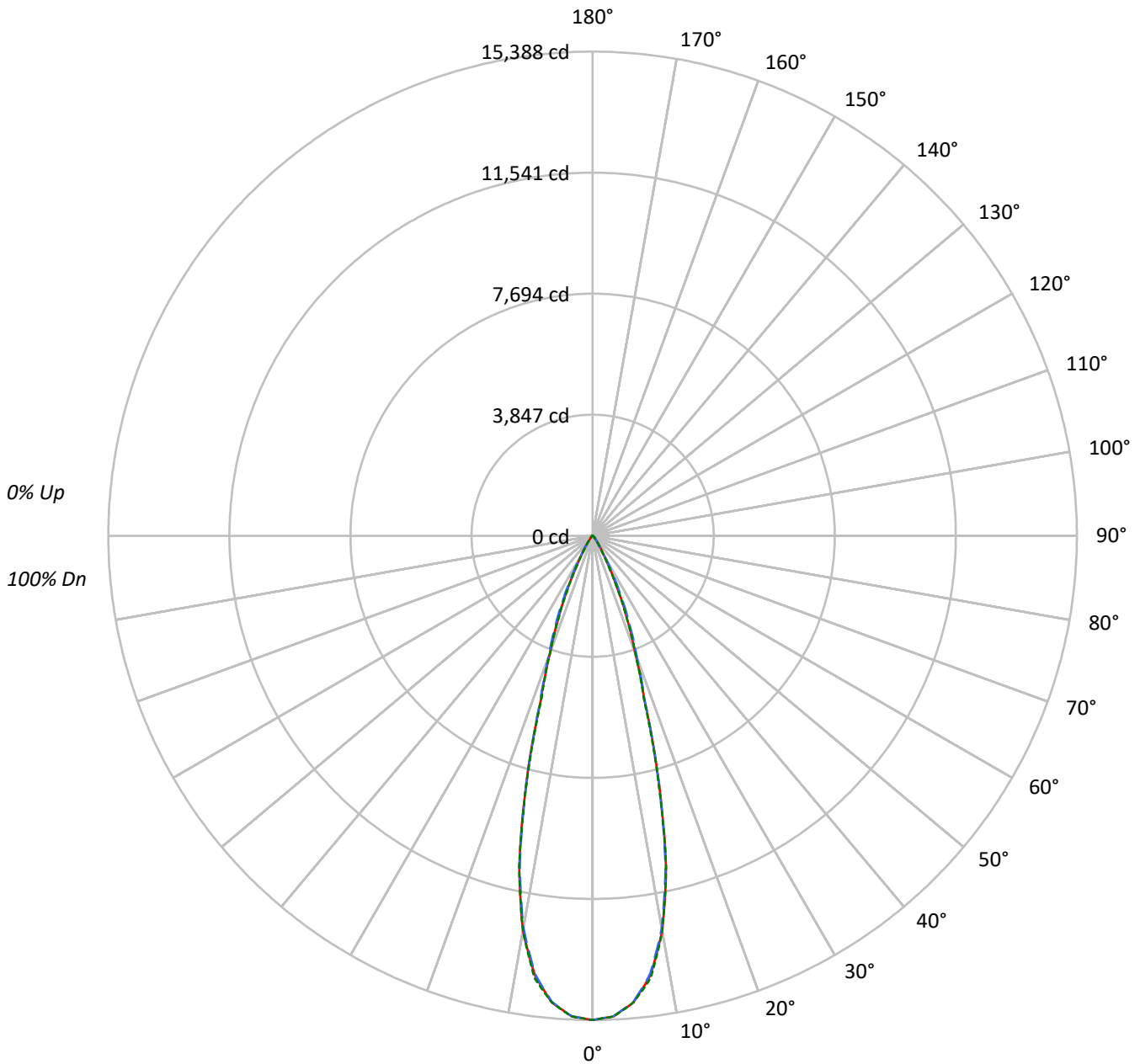
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P749942

CATALOG NUMBER: LD4D55D010-EU4DR3055659050-4LBSQW1MW

Luminous Intensity Polar Plot





TEST NUMBER: P749942

CATALOG NUMBER: LD4D55D010-EU4DR3055659050-4LBSQW1MW

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°	1177865	1177865	1177865
5°	1144054	1142717	1144108
10°	990921	983934	990688
15°	646524	643054	639820
20°	321490	333553	321058
25°	161945	182620	158626
30°	64839	70646	56496
35°	30070	28799	24145
40°	12980	14419	12230
45°	9158	11366	9244
50°	3144	8276	3334
55°	1815	3430	1922
60°	1271	1500	1271
65°	815	815	815
70°	515	336	515
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 11366 cd/sqm



TEST NUMBER: P749942

CATALOG NUMBER: LD4D55D010-EU4DR3055659050-4LBSQW1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1353.2	28.3
10°-20°	2179.3	45.5
20°-30°	941.7	19.7
30°-40°	214.6	4.5
40°-50°	73.7	1.5
50°-60°	18.0	0.4
60°-70°	4.6	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°	4474.2	93.5
0°-40°	4688.8	98.0
0°-60°	4780.5	99.9
0°-90°	4785.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4785.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15388	15388	15388	15388	15388	
5°	14890	14875	14872	14903	14890	1354
15°	8159	8060	8115	8088	8074	2185
25°	1918	1990	2162	1939	1878	918
35°	322	329	308	306	258	218
45°	85	105	105	105	85	60
55°	14	14	26	15	14	13
65°	4	4	4	4	4	4
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P749942

CATALOG NUMBER: LD4D55D010-EU4DR3055659050-4LBSQW1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15388.2	15388.2	15388.2	15388.2	15388.2
2.5°	15286.2	15275.6	15281.7	15289.2	15292.3
5°	14889.6	14875.2	14872.2	14903.2	14890.3
7.5°	14089.5	14069.1	14038.1	14108.4	14174.1
10°	12749.2	12726.5	12659.3	12692.5	12746.2
12.5°	10770.5	10697.2	10695.7	10801.5	10787.2
15°	8158.7	8060.5	8114.9	8088.5	8074.1
17.5°	5486.5	5448.7	5521.3	5499.3	5404.9
20°	3946.8	3956.6	4094.9	4025.4	3941.5
22.5°	2880.0	2915.5	3079.5	2900.4	2834.7
25°	1917.5	1990.0	2162.3	1939.4	1878.2
27.5°	1179.3	1212.6	1387.1	1164.2	1131.0
30°	733.6	717.0	799.3	686.0	639.2
32.5°	481.3	460.1	486.5	436.7	398.9
35°	321.8	328.6	308.2	306.0	258.4
37.5°	201.0	231.2	204.0	217.6	166.2
40°	129.9	167.7	144.3	159.4	122.4
42.5°	106.5	129.2	118.6	126.2	108.8
45°	84.6	105.0	105.0	105.0	85.4
47.5°	46.8	70.3	89.9	71.8	49.9
50°	26.4	35.5	69.5	37.0	28.0
52.5°	18.1	20.4	47.6	21.2	18.9
55°	13.6	14.4	25.7	15.1	14.4
57.5°	10.6	11.3	13.6	11.3	10.6
60°	8.3	8.3	9.8	9.1	8.3
62.5°	6.0	6.0	6.8	6.0	6.0
65°	4.5	4.5	4.5	4.5	4.5
67.5°	2.3	3.0	3.0	3.0	3.0
70°	2.3	1.5	1.5	1.5	2.3
72.5°	1.5	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)