

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: P746002

Luminaire Tested: LD4D30D010-EU4DR3020359030-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746002
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: LD4D30D010-EU4DR3020359030-4LBSQW1B
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: 1986.1 lumens
Efficiency: N/A
Efficacy: 68.5 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): 29
Input Voltage (V): NR
Input Current (Ain): 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



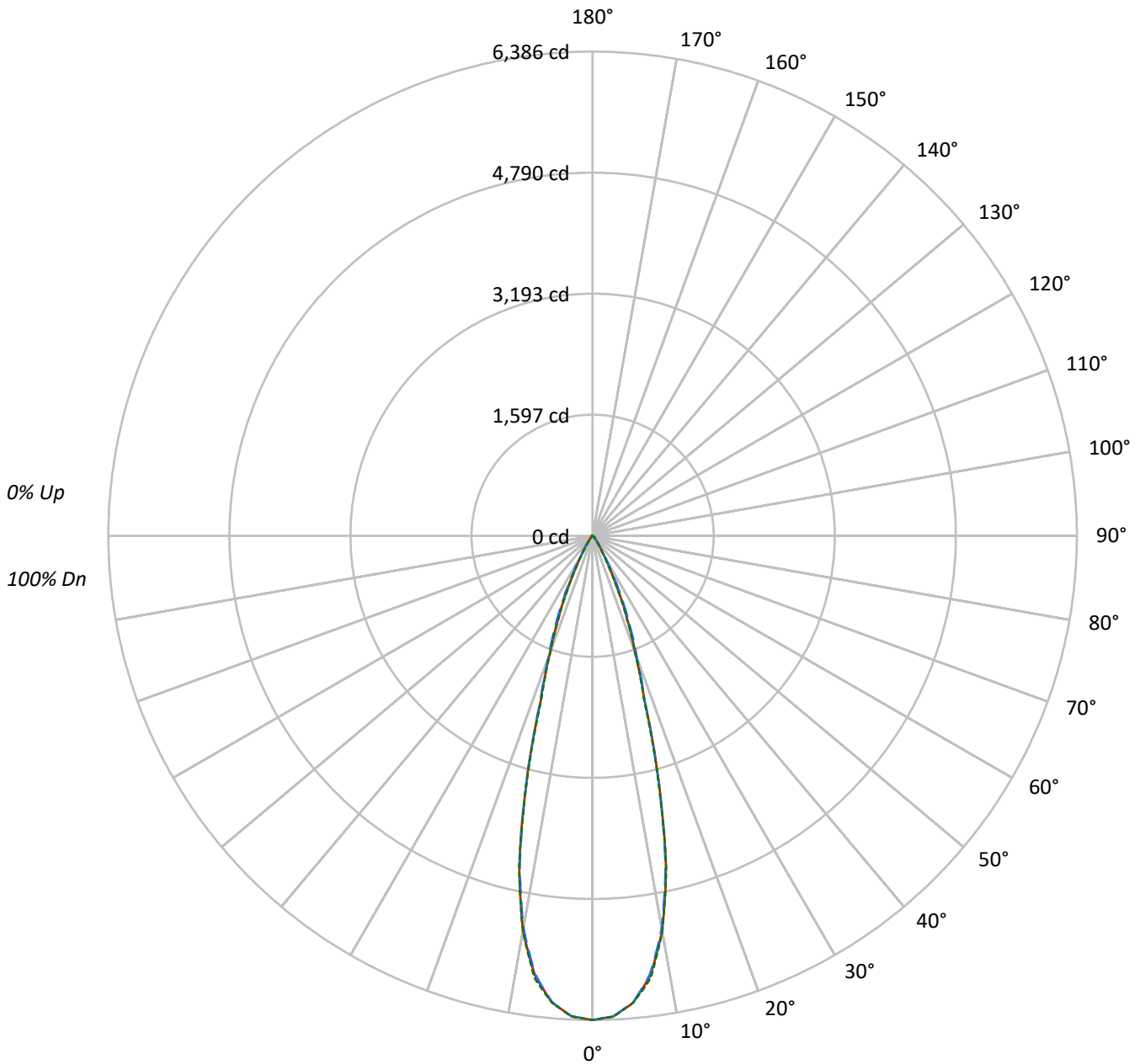
Downlight



TEST NUMBER: P746002

CATALOG NUMBER: LD4D30D010-EU4DR3020359030-4LBSQW1B

Luminous Intensity Polar Plot





TEST NUMBER: P746002

CATALOG NUMBER: LD4D30D010-EU4DR3020359030-4LBSQW1B

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	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°	488814	488814	488814
5°	474776	474223	474799
10°	411231	408332	411138
15°	268311	266869	265521
20°	133416	138426	133237
25°	67210	75791	65825
30°	26913	29317	23448
35°	12484	11951	10026
40°	5386	5985	5076
45°	3800	4720	3832
50°	1310	3430	1381
55°	761	1428	801
60°	520	628	520
65°	344	344	344
70°	201	134	201
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 4720 cd/sqm



TEST NUMBER: P746002

CATALOG NUMBER: LD4D30D010-EU4DR3020359030-4LBSQW1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	561.6	28.3
10°-20°	904.4	45.5
20°-30°	390.8	19.7
30°-40°	89.1	4.5
40°-50°	30.6	1.5
50°-60°	7.5	0.4
60°-70°	1.9	0.1
70°-80°	0.2	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°	1856.8	93.5
0°-40°	1945.8	98.0
0°-60°	1983.9	99.9
0°-90°	1986.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1986.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6386	6386	6386	6386	6386	
5°	6179	6173	6172	6185	6179	562
15°	3386	3345	3368	3357	3351	907
25°	796	826	897	805	779	381
35°	134	136	128	127	107	91
45°	35	44	44	44	35	25
55°	6	6	11	6	6	6
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P746002

CATALOG NUMBER: LD4D30D010-EU4DR3020359030-4LBSQW1B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6386.1	6386.1	6386.1	6386.1	6386.1
2.5°	6343.7	6339.4	6341.8	6345.0	6346.2
5°	6179.1	6173.1	6171.9	6184.8	6179.4
7.5°	5847.1	5838.6	5825.8	5854.9	5882.2
10°	5290.9	5281.5	5253.6	5267.4	5289.7
12.5°	4469.8	4439.3	4438.7	4482.6	4476.6
15°	3385.9	3345.1	3367.7	3356.7	3350.7
17.5°	2276.9	2261.2	2291.3	2282.2	2243.0
20°	1637.9	1642.0	1699.4	1670.5	1635.7
22.5°	1195.2	1209.9	1278.0	1203.7	1176.4
25°	795.8	825.9	897.4	804.8	779.4
27.5°	489.4	503.2	575.6	483.2	469.4
30°	304.5	297.5	331.7	284.7	265.3
32.5°	199.7	191.0	201.9	181.2	165.5
35°	133.6	136.4	127.9	127.0	107.3
37.5°	83.4	96.0	84.7	90.3	69.0
40°	53.9	69.6	59.9	66.2	50.8
42.5°	44.2	53.6	49.2	52.4	45.1
45°	35.1	43.6	43.6	43.6	35.4
47.5°	19.4	29.2	37.3	29.8	20.7
50°	11.0	14.7	28.8	15.4	11.6
52.5°	7.5	8.5	19.8	8.8	7.8
55°	5.7	6.0	10.7	6.2	6.0
57.5°	4.4	4.7	5.7	4.7	4.4
60°	3.4	3.4	4.1	3.8	3.4
62.5°	2.5	2.5	2.8	2.5	2.5
65°	1.9	1.9	1.9	1.9	1.9
67.5°	0.9	1.3	1.3	1.3	1.3
70°	0.9	0.6	0.6	0.6	0.9
72.5°	0.6	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	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)