

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: P746003

Luminaire Tested: LD4D30D010-EU4DR3020359030-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746003
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-EU4DR3020359030-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2198.8 lumens
Efficiency: N/A
Efficacy: 75.8 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



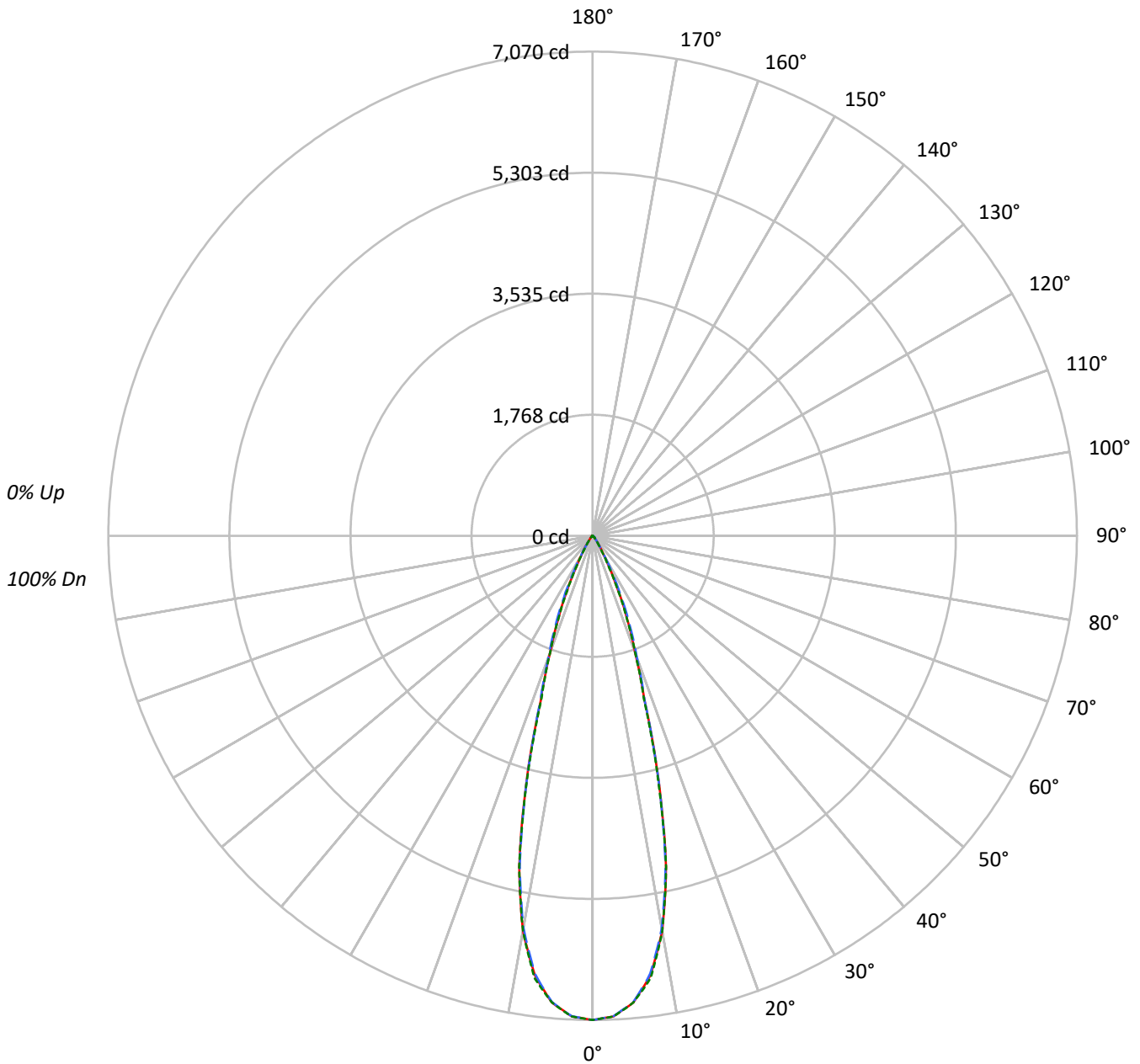
Downlight



TEST NUMBER: P746003

CATALOG NUMBER: LD4D30D010-EU4DR3020359030-4LBSQW1MW

Luminous Intensity Polar Plot





TEST NUMBER: P746003

CATALOG NUMBER: LD4D30D010-EU4DR3020359030-4LBSQW1MW

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	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°	541177	541177	541177
5°	525641	525027	525672
10°	455285	452075	455184
15°	297052	295460	293970
20°	147712	153251	147508
25°	74406	83907	72886
30°	29794	32464	25959
35°	13820	13231	11092
40°	5965	6625	5616
45°	4211	5218	4243
50°	1441	3799	1524
55°	827	1575	881
60°	582	689	582
65°	380	380	380
70°	224	157	224
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 5218 cd/sqm



TEST NUMBER: P746003

CATALOG NUMBER: LD4D30D010-EU4DR3020359030-4LBSQW1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.7	28.3
10°-20°	1001.3	45.5
20°-30°	432.7	19.7
30°-40°	98.6	4.5
40°-50°	33.9	1.5
50°-60°	8.3	0.4
60°-70°	2.2	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°	2055.7	93.5
0°-40°	2154.3	98.0
0°-60°	2196.4	99.9
0°-90°	2198.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2198.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7070	7070	7070	7070	7070	
5°	6841	6835	6833	6847	6842	622
15°	3749	3704	3728	3716	3710	1004
25°	881	914	994	891	863	422
35°	148	151	142	141	119	100
45°	39	48	48	48	39	28
55°	6	7	12	7	7	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: P746003

CATALOG NUMBER: LD4D30D010-EU4DR3020359030-4LBSQW1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7070.2	7070.2	7070.2	7070.2	7070.2
2.5°	7023.3	7018.5	7021.3	7024.8	7026.2
5°	6841.1	6834.6	6833.1	6847.4	6841.5
7.5°	6473.5	6464.1	6449.9	6482.2	6512.4
10°	5857.7	5847.3	5816.4	5831.7	5856.4
12.5°	4948.6	4914.9	4914.3	4962.8	4956.3
15°	3748.6	3703.5	3728.5	3716.3	3709.7
17.5°	2520.8	2503.5	2536.8	2526.7	2483.3
20°	1813.4	1817.9	1881.4	1849.5	1810.9
22.5°	1323.2	1339.6	1414.9	1332.6	1302.4
25°	881.0	914.3	993.5	891.1	863.0
27.5°	541.8	557.1	637.3	534.9	519.7
30°	337.1	329.4	367.3	315.2	293.7
32.5°	221.1	211.4	223.6	200.6	183.3
35°	147.9	151.0	141.6	140.6	118.7
37.5°	92.4	106.2	93.7	100.0	76.4
40°	59.7	77.1	66.3	73.2	56.2
42.5°	48.9	59.4	54.5	58.0	50.0
45°	38.9	48.2	48.2	48.2	39.2
47.5°	21.5	32.3	41.3	33.0	22.9
50°	12.1	16.3	31.9	17.0	12.8
52.5°	8.3	9.4	21.9	9.7	8.7
55°	6.2	6.6	11.8	6.9	6.6
57.5°	4.9	5.2	6.2	5.2	4.9
60°	3.8	3.8	4.5	4.2	3.8
62.5°	2.8	2.8	3.2	2.8	2.8
65°	2.1	2.1	2.1	2.1	2.1
67.5°	1.0	1.4	1.4	1.4	1.4
70°	1.0	0.7	0.7	0.7	1.0
72.5°	0.7	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)