

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: P743887

Luminaire Tested: LD4D20D010-EU4DR1515309030-4LBCSSQMW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743887
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D20D010-EU4DR1515309030-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1754.0 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')
CIE Type: Direct

Input Watts (W): 23.1
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



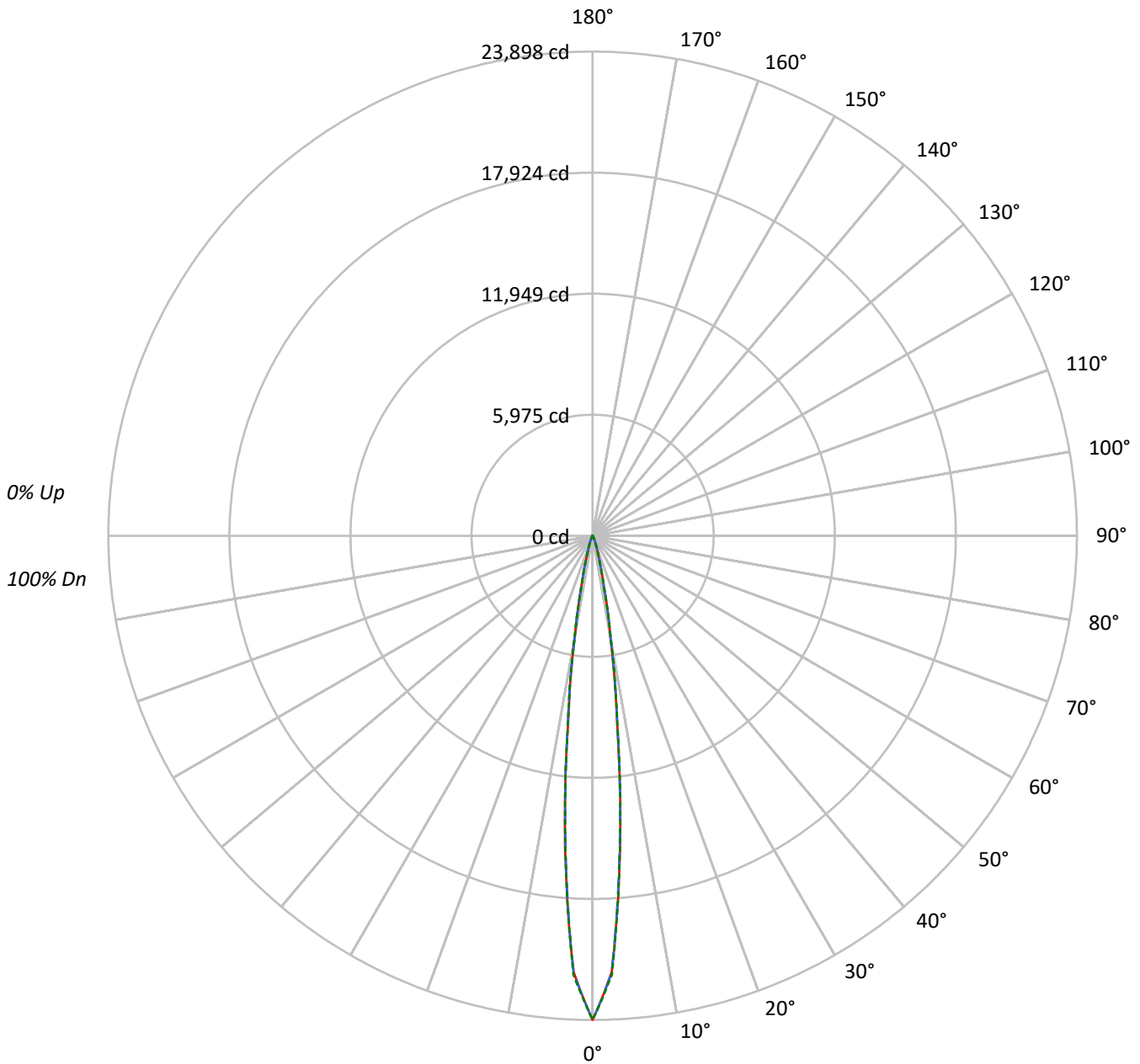
Downlight



TEST NUMBER: P743887

CATALOG NUMBER: LD4D20D010-EU4DR1515309030-4LBCSSQMW

Luminous Intensity Polar Plot





TEST NUMBER: P743887

CATALOG NUMBER: LD4D20D010-EU4DR1515309030-4LBCSSQMW

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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96																			
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94																			
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93																			
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92																			
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90																			
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89																			
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88																			
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87																			
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2689013	2689013	2689013
5°	1580187	1559729	1572067
10°	471614	474917	482186
15°	117309	119593	115902
20°	35102	40641	35847
25°	12371	15759	12534
30°	4545	5983	4620
35°	2280	2571	2208
40°	1434	1584	1434
45°	1064	1134	1064
50°	841	841	841
55°	703	703	703
60°	569	569	569
65°	435	435	435
70°	373	373	373
75°	227	227	302
80°	158	158	158
85°	83	83	83

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1134 cd/sqm



TEST NUMBER: P743887

CATALOG NUMBER: LD4D20D010-EU4DR1515309030-4LBCSSQMW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1137.6	64.9
10°-20°	467.9	26.7
20°-30°	92.9	5.3
30°-40°	23.2	1.3
40°-50°	12.2	0.7
50°-60°	9.0	0.5
60°-70°	6.4	0.4
70°-80°	3.6	0.2
80°-90°	1.1	0.1
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°	1698.5	96.8
0°-40°	1721.7	98.2
0°-60°	1742.9	99.4
0°-90°	1754.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1754.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23898	23898	23898	23898	23898	
5°	15549	15389	15347	15454	15469	1135
15°	1351	1376	1377	1353	1334	463
25°	159	180	202	179	161	83
35°	31	33	35	33	30	21
45°	15	15	16	15	15	12
55°	10	10	10	10	10	9
65°	6	6	6	6	6	6
75°	3	3	3	3	4	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P743887

CATALOG NUMBER: LD4D20D010-EU4DR1515309030-4LBCSSQMW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	23898.1	23898.1	23898.1	23898.1	23898.1
2.5°	21557.0	21575.2	21582.3	21603.6	21682.5
5°	15548.6	15388.8	15347.3	15453.5	15468.7
7.5°	9210.4	9242.8	9361.1	9387.4	9292.3
10°	5054.4	5095.9	5089.8	5126.2	5167.7
12.5°	2584.9	2552.5	2542.4	2583.8	2526.2
15°	1350.6	1375.9	1376.9	1352.6	1334.4
17.5°	726.4	755.7	804.3	764.8	704.1
20°	429.0	455.3	496.7	464.4	438.1
22.5°	265.1	286.3	315.6	290.4	269.1
25°	158.8	180.1	202.3	179.1	160.9
27.5°	94.1	112.3	126.5	111.3	93.1
30°	60.7	70.8	79.9	69.8	61.7
32.5°	42.5	46.5	50.6	46.5	42.5
35°	31.4	33.4	35.4	33.4	30.4
37.5°	24.3	26.3	27.3	25.3	23.3
40°	20.2	21.2	22.3	21.2	20.2
42.5°	17.2	18.2	18.2	18.2	17.2
45°	15.2	15.2	16.2	15.2	15.2
47.5°	13.2	13.2	14.2	13.2	13.2
50°	12.1	12.1	12.1	12.1	12.1
52.5°	11.1	11.1	11.1	11.1	11.1
55°	10.1	10.1	10.1	10.1	10.1
57.5°	9.1	9.1	9.1	9.1	9.1
60°	8.1	8.1	8.1	8.1	8.1
62.5°	7.1	7.1	7.1	7.1	7.1
65°	6.1	6.1	6.1	6.1	6.1
67.5°	6.1	6.1	6.1	6.1	6.1
70°	5.1	5.1	5.1	5.1	5.1
72.5°	4.0	4.0	4.0	4.0	4.0
75°	3.0	3.0	3.0	3.0	4.0
77.5°	3.0	3.0	3.0	3.0	3.0
80°	2.0	2.0	2.0	2.0	2.0
82.5°	2.0	2.0	2.0	2.0	2.0
85°	1.0	1.0	1.0	1.0	1.0
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)