

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: P744112

Luminaire Tested: LD4D20D010-EU4DR3020359027-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P744112
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: LD4D20D010-EU4DR3020359027-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1555.6 lumens
Efficiency: N/A
Efficacy: 67.3 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): 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



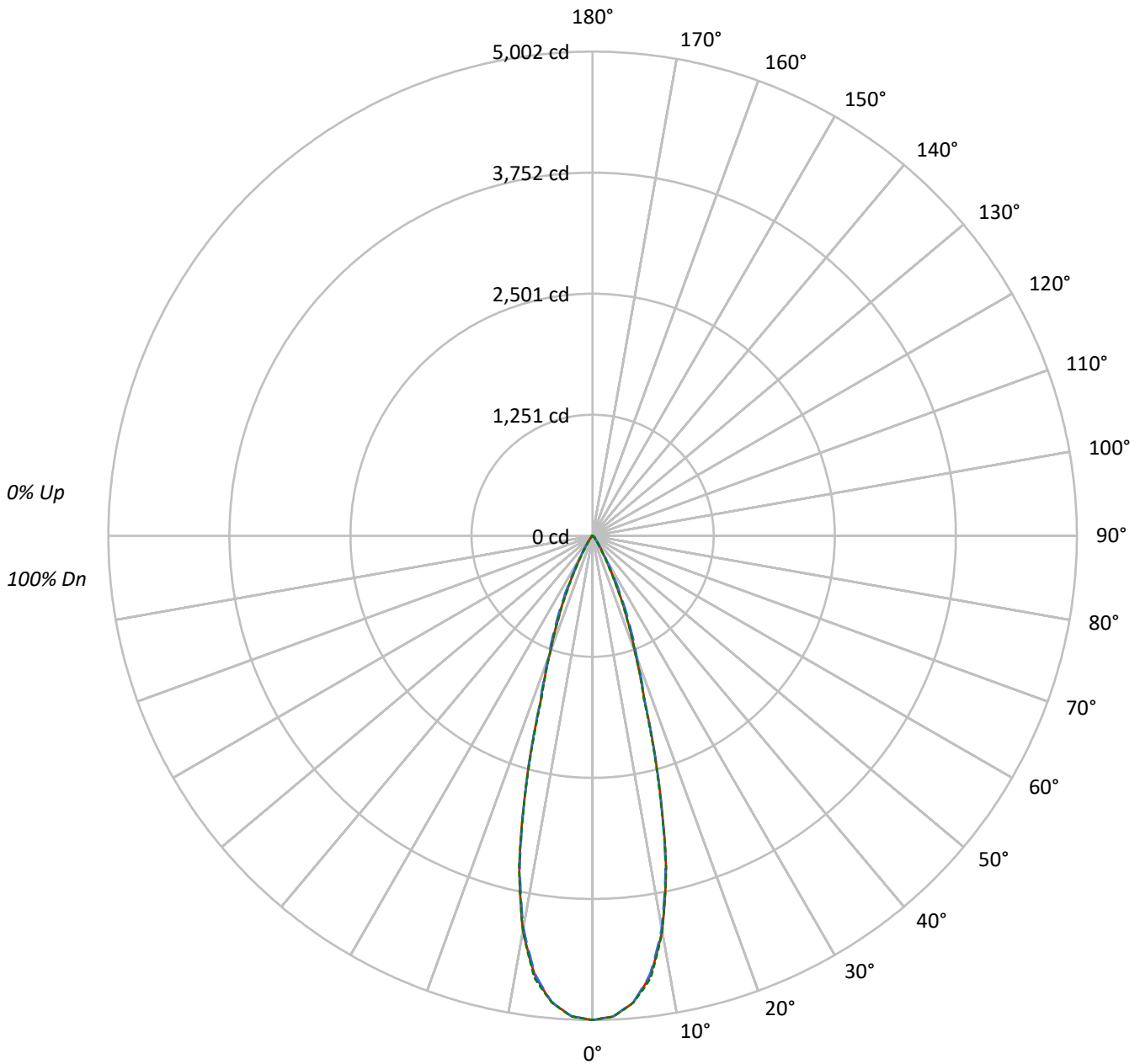
Downlight



TEST NUMBER: P744112

CATALOG NUMBER: LD4D20D010-EU4DR3020359027-4LBDP1MW

Luminous Intensity Polar Plot





TEST NUMBER: P744112

CATALOG NUMBER: LD4D20D010-EU4DR3020359027-4LBDP1MW

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	87	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°	382885	382885	382885
5°	371893	371455	371908
10°	322120	319843	322042
15°	210162	209037	207983
20°	104508	108426	104361
25°	52642	59364	51561
30°	21080	22962	18366
35°	9774	9363	7849
40°	4217	4686	3977
45°	2977	3691	2998
50°	1024	2691	1084
55°	587	1121	614
60°	413	490	413
65°	272	272	272
70°	157	112	157
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 3691 cd/sqm



TEST NUMBER: P744112

CATALOG NUMBER: LD4D20D010-EU4DR3020359027-4LBDP1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.9	28.3
10°-20°	708.4	45.5
20°-30°	306.1	19.7
30°-40°	69.8	4.5
40°-50°	23.9	1.5
50°-60°	5.8	0.4
60°-70°	1.5	0.1
70°-80°	0.1	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°	1454.4	93.5
0°-40°	1524.2	98.0
0°-60°	1554.0	99.9
0°-90°	1555.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1555.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5002	5002	5002	5002	5002	
5°	4840	4836	4834	4844	4840	440
15°	2652	2620	2638	2629	2625	710
25°	623	647	703	630	610	298
35°	105	107	100	100	84	71
45°	28	34	34	34	28	20
55°	4	5	8	5	5	4
65°	2	2	2	2	2	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P744112

CATALOG NUMBER: LD4D20D010-EU4DR3020359027-4LBDP1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5002.2	5002.2	5002.2	5002.2	5002.2
2.5°	4969.0	4965.6	4967.6	4970.1	4971.0
5°	4840.1	4835.5	4834.4	4844.5	4840.3
7.5°	4580.1	4573.4	4563.3	4586.2	4607.6
10°	4144.4	4137.0	4115.1	4125.9	4143.4
12.5°	3501.1	3477.4	3476.8	3511.2	3506.6
15°	2652.1	2620.2	2637.9	2629.3	2624.6
17.5°	1783.5	1771.2	1794.8	1787.7	1757.0
20°	1283.0	1286.2	1331.1	1308.5	1281.2
22.5°	936.2	947.7	1001.0	942.8	921.5
25°	623.3	646.9	702.9	630.4	610.5
27.5°	383.4	394.2	450.9	378.4	367.7
30°	238.5	233.1	259.8	223.0	207.8
32.5°	156.4	149.5	158.1	142.0	129.7
35°	104.6	106.9	100.2	99.5	84.0
37.5°	65.3	75.2	66.3	70.7	54.0
40°	42.2	54.5	46.9	51.8	39.8
42.5°	34.6	42.0	38.6	41.0	35.4
45°	27.5	34.1	34.1	34.1	27.7
47.5°	15.2	22.9	29.2	23.3	16.2
50°	8.6	11.5	22.6	12.0	9.1
52.5°	5.9	6.6	15.5	6.9	6.1
55°	4.4	4.6	8.4	4.9	4.6
57.5°	3.4	3.7	4.4	3.7	3.4
60°	2.7	2.7	3.2	2.9	2.7
62.5°	1.9	1.9	2.2	1.9	1.9
65°	1.5	1.5	1.5	1.5	1.5
67.5°	0.7	1.0	1.0	1.0	1.0
70°	0.7	0.5	0.5	0.5	0.7
72.5°	0.5	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	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)