

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: P753836

Luminaire Tested: LD4D80BD010-EU4DR3070959050-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753836
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: LD4D80BD010-EU4DR3070959050-4LBDP1MW
Description: 4 INCH ROUND 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: 7062.8 lumens
Efficiency: N/A
Efficacy: 89.5 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

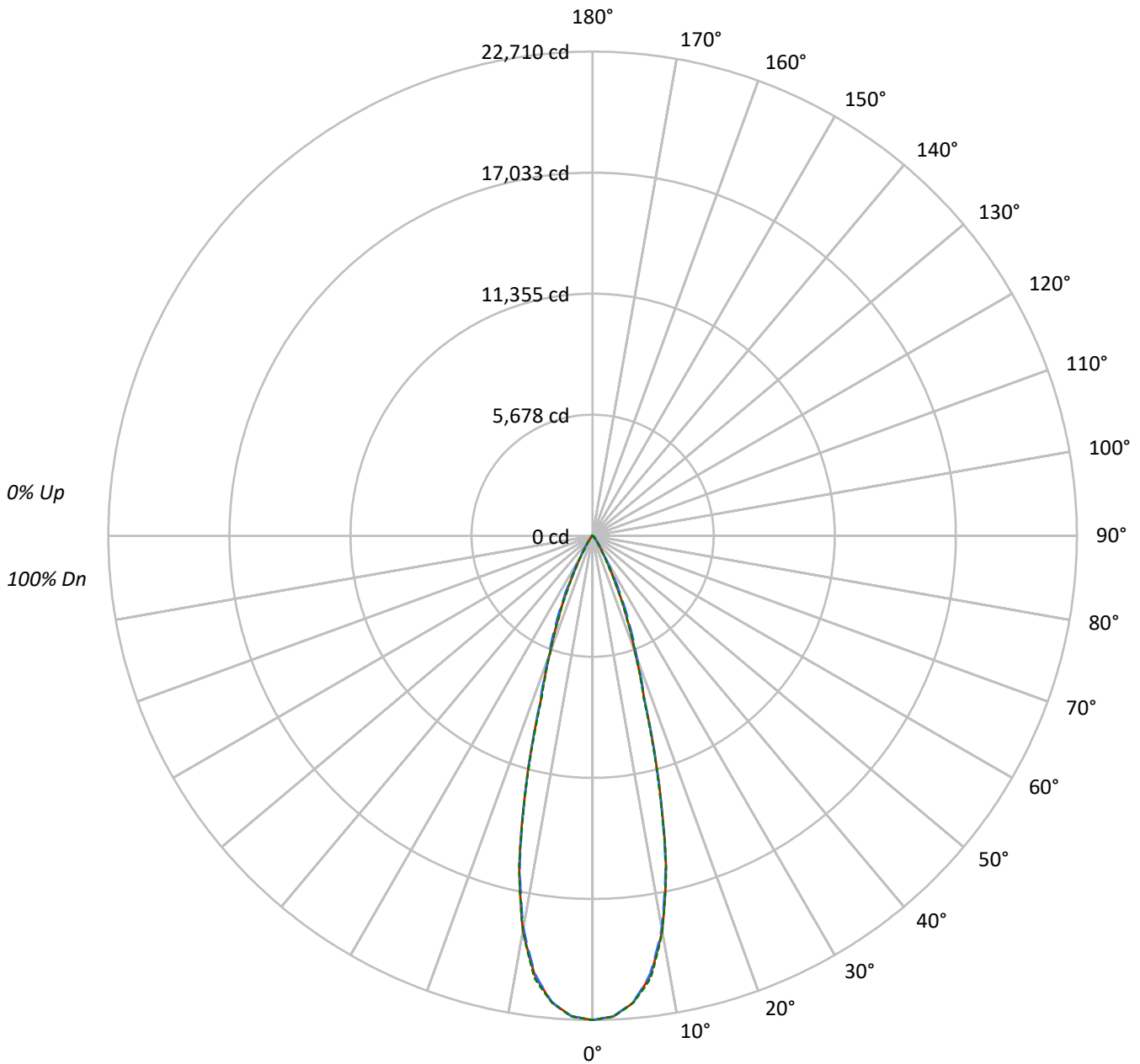
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P753836
CATALOG NUMBER: LD4D80BD010-EU4DR3070959050-4LBDP1MW

Luminous Intensity Polar Plot





TEST NUMBER: P753836

CATALOG NUMBER: LD4D80BD010-EU4DR3070959050-4LBDP1MW

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	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°	1738323	1738323	1738323
5°	1688420	1686453	1688505
10°	1462427	1452113	1462085
15°	954164	949037	944266
20°	474464	492262	473828
25°	239003	269508	234104
30°	95694	104267	83373
35°	44385	42507	35630
40°	19165	21283	18046
45°	13520	16779	13639
50°	4644	12218	4918
55°	2682	5058	2829
60°	1883	2220	1883
65°	1213	1213	1213
70°	739	492	739
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 16779 cd/sqm



TEST NUMBER: P753836

CATALOG NUMBER: LD4D80BD010-EU4DR3070959050-4LBDP1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1997.0	28.3
10°-20°	3216.2	45.5
20°-30°	1389.8	19.7
30°-40°	316.8	4.5
40°-50°	108.8	1.5
50°-60°	26.6	0.4
60°-70°	6.9	0.1
70°-80°	0.7	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°	6603.1	93.5
0°-40°	6919.9	98.0
0°-60°	7055.2	99.9
0°-90°	7062.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7062.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22710	22710	22710	22710	22710	
5°	21974	21953	21949	21994	21976	1999
15°	12041	11896	11976	11937	11916	3224
25°	2830	2937	3191	2862	2772	1355
35°	475	485	455	452	381	322
45°	125	155	155	155	126	89
55°	20	21	38	22	21	20
65°	7	7	7	7	7	7
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P753836

CATALOG NUMBER: LD4D80BD010-EU4DR3070959050-4LBDP1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	22710.3	22710.3	22710.3	22710.3	22710.3
2.5°	22559.8	22544.2	22553.1	22564.3	22568.7
5°	21974.4	21953.2	21948.8	21994.5	21975.5
7.5°	20793.6	20763.5	20717.8	20821.5	20918.5
10°	18815.6	18782.2	18682.9	18732.0	18811.2
12.5°	15895.4	15787.3	15785.1	15941.2	15920.0
15°	12040.9	11895.9	11976.2	11937.2	11916.0
17.5°	8097.1	8041.4	8148.4	8116.1	7976.7
20°	5824.8	5839.3	6043.3	5940.7	5817.0
22.5°	4250.4	4302.8	4544.7	4280.5	4183.5
25°	2829.9	2936.9	3191.1	2862.2	2771.9
27.5°	1740.5	1789.6	2047.1	1718.2	1669.2
30°	1082.7	1058.1	1179.7	1012.4	943.3
32.5°	710.3	679.0	718.1	644.5	588.7
35°	475.0	485.0	454.9	451.6	381.3
37.5°	296.6	341.2	301.1	321.1	245.3
40°	191.8	247.5	213.0	235.3	180.6
42.5°	157.2	190.7	175.1	186.2	160.6
45°	124.9	155.0	155.0	155.0	126.0
47.5°	69.1	103.7	132.7	105.9	73.6
50°	39.0	52.4	102.6	54.6	41.3
52.5°	26.8	30.1	70.2	31.2	27.9
55°	20.1	21.2	37.9	22.3	21.2
57.5°	15.6	16.7	20.1	16.7	15.6
60°	12.3	12.3	14.5	13.4	12.3
62.5°	8.9	8.9	10.0	8.9	8.9
65°	6.7	6.7	6.7	6.7	6.7
67.5°	3.3	4.5	4.5	4.5	4.5
70°	3.3	2.2	2.2	2.2	3.3
72.5°	2.2	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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)