

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: P753799

Luminaire Tested: LD4D80BD010-EU4DR3070959030-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753799
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-EU4DR3070959030-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7823.0 lumens
Efficiency: N/A
Efficacy: 99.2 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

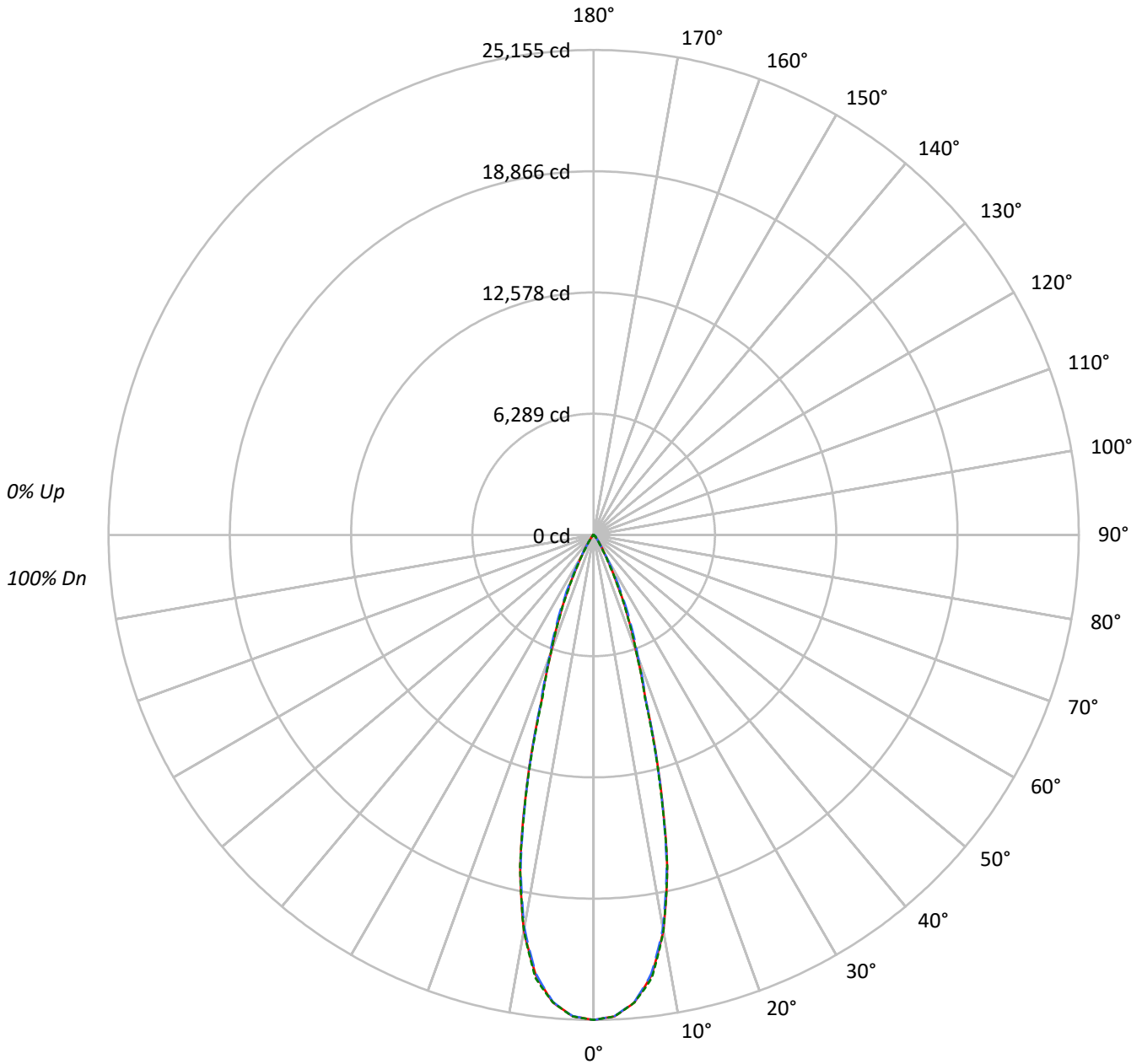
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P753799
CATALOG NUMBER: LD4D80BD010-EU4DR3070959030-4LBS1H

Luminous Intensity Polar Plot





TEST NUMBER: P753799

CATALOG NUMBER: LD4D80BD010-EU4DR3070959030-4LBS1H

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°	1925441	1925441	1925441
5°	1870167	1867985	1870260
10°	1619842	1608425	1619461
15°	1056871	1051190	1045904
20°	525528	545249	524828
25°	264728	298519	259306
30°	105991	115492	92344
35°	49160	47086	39470
40°	21223	23571	19994
45°	14971	18586	15112
50°	5144	13528	5442
55°	2963	5605	3136
60°	2082	2465	2082
65°	1340	1340	1340
70°	828	559	828
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 18586 cd/sqm



TEST NUMBER: P753799

CATALOG NUMBER: LD4D80BD010-EU4DR3070959030-4LBS1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2212.0	28.3
10°-20°	3562.4	45.5
20°-30°	1539.4	19.7
30°-40°	350.9	4.5
40°-50°	120.5	1.5
50°-60°	29.4	0.4
60°-70°	7.6	0.1
70°-80°	0.8	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°	7313.8	93.5
0°-40°	7664.7	98.0
0°-60°	7814.6	99.9
0°-90°	7823.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7823.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25155	25155	25155	25155	25155	
5°	24340	24316	24311	24362	24341	2214
15°	13337	13176	13265	13222	13199	3571
25°	3134	3253	3535	3170	3070	1500
35°	526	537	504	500	422	357
45°	138	172	172	172	140	98
55°	22	24	42	25	24	22
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: P753799

CATALOG NUMBER: LD4D80BD010-EU4DR3070959030-4LBS1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	25154.9	25154.9	25154.9	25154.9	25154.9
2.5°	24988.1	24970.9	24980.7	24993.1	24998.0
5°	24339.8	24316.3	24311.4	24362.0	24341.0
7.5°	23031.9	22998.5	22947.9	23062.7	23170.2
10°	20840.9	20803.9	20694.0	20748.3	20836.0
12.5°	17606.4	17486.6	17484.2	17657.1	17633.6
15°	13337.0	13176.4	13265.3	13222.1	13198.6
17.5°	8968.7	8907.0	9025.5	8989.7	8835.3
20°	6451.7	6467.8	6693.8	6580.2	6443.1
22.5°	4707.9	4765.9	5033.9	4741.2	4633.8
25°	3134.5	3253.0	3534.6	3170.3	3070.3
27.5°	1927.9	1982.2	2267.5	1903.2	1848.8
30°	1199.2	1172.0	1306.7	1121.4	1044.8
32.5°	786.7	752.1	795.4	713.8	652.1
35°	526.1	537.2	503.9	500.2	422.4
37.5°	328.5	377.9	333.5	355.7	271.7
40°	212.4	274.2	235.9	260.6	200.1
42.5°	174.1	211.2	193.9	206.2	177.8
45°	138.3	171.7	171.7	171.7	139.6
47.5°	76.6	114.9	147.0	117.3	81.5
50°	43.2	58.0	113.6	60.5	45.7
52.5°	29.6	33.3	77.8	34.6	30.9
55°	22.2	23.5	42.0	24.7	23.5
57.5°	17.3	18.5	22.2	18.5	17.3
60°	13.6	13.6	16.1	14.8	13.6
62.5°	9.9	9.9	11.1	9.9	9.9
65°	7.4	7.4	7.4	7.4	7.4
67.5°	3.7	4.9	4.9	4.9	4.9
70°	3.7	2.5	2.5	2.5	3.7
72.5°	2.5	1.2	1.2	1.2	1.2
75°	0.0	0.0	1.2	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)