

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: P755358

Luminaire Tested: LD4D90BD010-EU4DR3070959030-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755358
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: LD4D90BD010-EU4DR3070959030-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8283.6 lumens
Efficiency: N/A
Efficacy: 83.8 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): 98.9
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

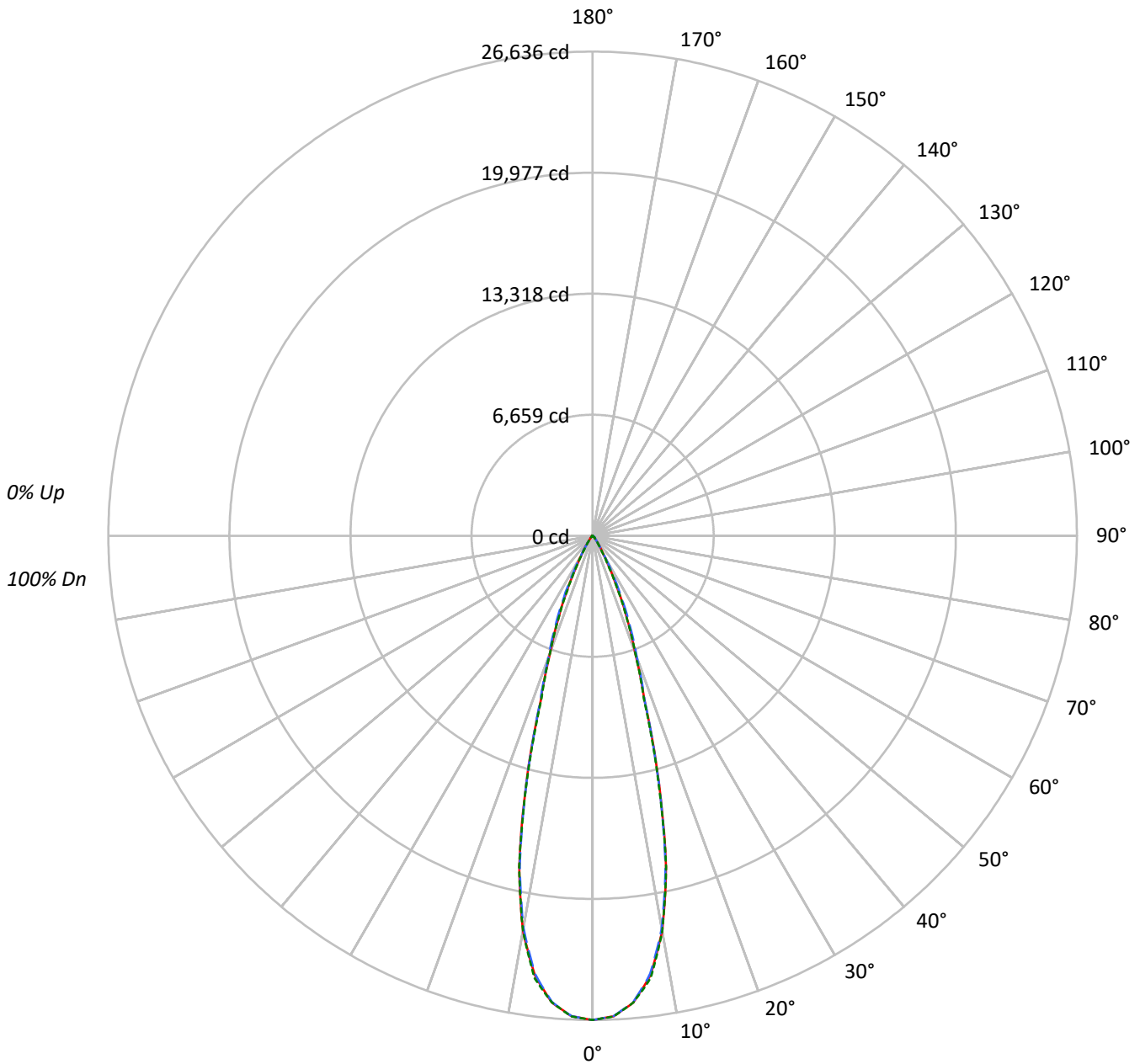


Downlight

TEST NUMBER: P755358

CATALOG NUMBER: LD4D90BD010-EU4DR3070959030-4LBS1B

Luminous Intensity Polar Plot





TEST NUMBER: P755358

CATALOG NUMBER: LD4D90BD010-EU4DR3070959030-4LBS1B

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																			
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°	2038787	2038787	2038787
5°	1980258	1977945	1980358
10°	1715202	1703108	1714798
15°	1119085	1113071	1107476
20°	556465	577350	555724
25°	280310	316095	274567
30°	112231	122289	97780
35°	52057	49861	41787
40°	22472	24960	21173
45°	15858	19680	15999
50°	5454	14325	5763
55°	3136	5938	3310
60°	2204	2602	2204
65°	1413	1413	1413
70°	873	582	873
75°	0	384	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 19680 cd/sqm



TEST NUMBER: P755358

CATALOG NUMBER: LD4D90BD010-EU4DR3070959030-4LBS1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2342.2	28.3
10°-20°	3772.1	45.5
20°-30°	1630.0	19.7
30°-40°	371.5	4.5
40°-50°	127.6	1.5
50°-60°	31.2	0.4
60°-70°	8.1	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°	7744.4	93.5
0°-40°	8115.9	98.0
0°-60°	8274.6	99.9
0°-90°	8283.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8283.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26636	26636	26636	26636	26636	
5°	25773	25748	25742	25796	25774	2344
15°	14122	13952	14046	14000	13976	3781
25°	3319	3444	3743	3357	3251	1589
35°	557	569	534	530	447	378
45°	146	182	182	182	148	104
55°	24	25	44	26	25	23
65°	8	8	8	8	8	8
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P755358

CATALOG NUMBER: LD4D90BD010-EU4DR3070959030-4LBS1B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	26635.7	26635.7	26635.7	26635.7	26635.7
2.5°	26459.2	26440.8	26451.3	26464.4	26469.6
5°	25772.6	25747.8	25742.5	25796.1	25773.9
7.5°	24387.7	24352.4	24298.8	24420.4	24534.2
10°	22067.8	22028.6	21912.2	21969.7	22062.6
12.5°	18642.9	18516.0	18513.4	18696.5	18671.7
15°	14122.1	13952.1	14046.2	14000.5	13975.6
17.5°	9496.7	9431.3	9556.8	9518.9	9355.4
20°	6831.5	6848.5	7087.9	6967.5	6822.4
22.5°	4985.0	5046.5	5330.3	5020.3	4906.6
25°	3319.0	3444.5	3742.7	3356.9	3251.0
27.5°	2041.4	2098.9	2401.0	2015.2	1957.7
30°	1269.8	1241.0	1383.6	1187.4	1106.3
32.5°	833.0	796.4	842.2	755.9	690.5
35°	557.1	568.9	533.6	529.6	447.2
37.5°	347.9	400.2	353.1	376.6	287.7
40°	224.9	290.3	249.8	275.9	211.9
42.5°	184.4	223.6	205.3	218.4	188.3
45°	146.5	181.8	181.8	181.8	147.8
47.5°	81.1	121.6	155.6	124.2	86.3
50°	45.8	61.5	120.3	64.1	48.4
52.5°	31.4	35.3	82.4	36.6	32.7
55°	23.5	24.8	44.5	26.2	24.8
57.5°	18.3	19.6	23.5	19.6	18.3
60°	14.4	14.4	17.0	15.7	14.4
62.5°	10.5	10.5	11.8	10.5	10.5
65°	7.8	7.8	7.8	7.8	7.8
67.5°	3.9	5.2	5.2	5.2	5.2
70°	3.9	2.6	2.6	2.6	3.9
72.5°	2.6	1.3	1.3	1.3	1.3
75°	0.0	0.0	1.3	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)