

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: P755335

Luminaire Tested: LD4D90BD010-EU4DR3070959024-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755335
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-EU4DR3070959024-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7196.3 lumens
Efficiency: N/A
Efficacy: 72.8 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

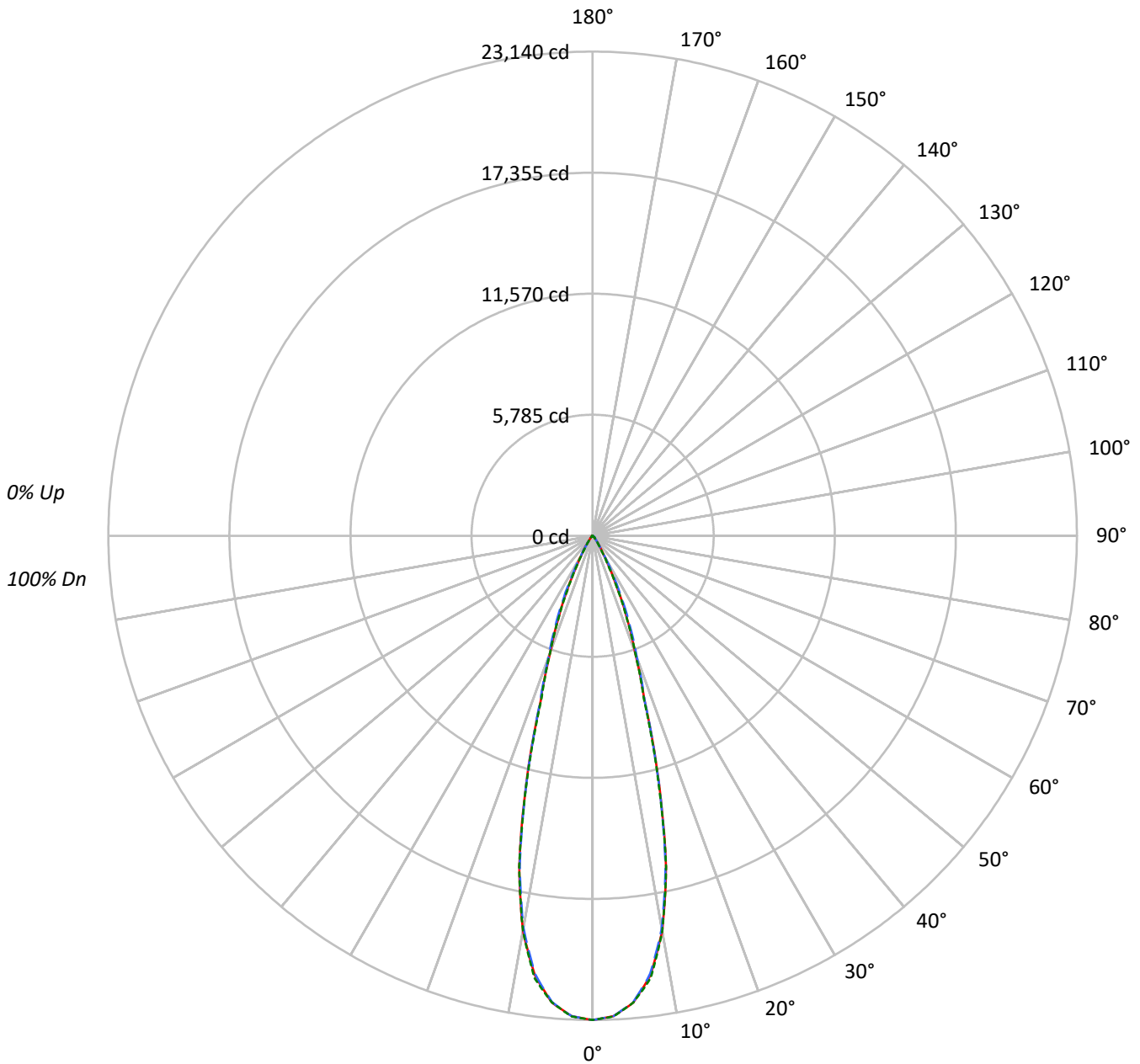


Downlight

TEST NUMBER: P755335

CATALOG NUMBER: LD4D90BD010-EU4DR3070959024-4LBS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P755335

CATALOG NUMBER: LD4D90BD010-EU4DR3070959024-4LBS1MW

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°	1771184	1771184	1771184
5°	1720338	1718332	1720430
10°	1490074	1479566	1489724
15°	972200	966977	962120
20°	483432	501564	482780
25°	243521	274610	238530
30°	97497	106238	84947
35°	45226	43310	36302
40°	19524	21683	18385
45°	13769	17092	13899
50°	4739	12444	5001
55°	2722	5151	2883
60°	1914	2266	1914
65°	1232	1232	1232
70°	761	515	761
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 17092 cd/sqm



TEST NUMBER: P755335

CATALOG NUMBER: LD4D90BD010-EU4DR3070959024-4LBS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2034.8	28.3
10°-20°	3277.0	45.5
20°-30°	1416.1	19.7
30°-40°	322.8	4.5
40°-50°	110.8	1.5
50°-60°	27.1	0.4
60°-70°	7.0	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°	6727.9	93.5
0°-40°	7050.7	98.0
0°-60°	7188.5	99.9
0°-90°	7196.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7196.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23140	23140	23140	23140	23140	
5°	22390	22368	22364	22410	22391	2036
15°	12268	12121	12203	12163	12141	3285
25°	2883	2992	3252	2916	2824	1380
35°	484	494	464	460	388	328
45°	127	158	158	158	128	90
55°	20	22	39	23	22	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: P755335

CATALOG NUMBER: LD4D90BD010-EU4DR3070959024-4LBS1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	23139.6	23139.6	23139.6	23139.6	23139.6
2.5°	22986.3	22970.4	22979.4	22990.8	22995.3
5°	22389.8	22368.2	22363.7	22410.3	22391.0
7.5°	21186.7	21156.0	21109.5	21215.1	21314.0
10°	19171.3	19137.2	19036.1	19086.1	19166.8
12.5°	16195.9	16085.7	16083.4	16242.5	16220.9
15°	12268.5	12120.8	12202.6	12162.8	12141.3
17.5°	8250.2	8193.4	8302.5	8269.5	8127.5
20°	5934.9	5949.6	6157.5	6053.0	5926.9
22.5°	4330.7	4384.1	4630.7	4361.4	4262.6
25°	2883.4	2992.4	3251.5	2916.3	2824.3
27.5°	1773.4	1823.4	2085.8	1750.7	1700.7
30°	1103.1	1078.1	1202.0	1031.6	961.1
32.5°	723.7	691.9	731.6	656.7	599.8
35°	484.0	494.2	463.5	460.1	388.5
37.5°	302.2	347.6	306.7	327.2	249.9
40°	195.4	252.2	217.0	239.7	184.0
42.5°	160.2	194.3	178.4	189.7	163.6
45°	127.2	157.9	157.9	157.9	128.4
47.5°	70.4	105.7	135.2	107.9	75.0
50°	39.8	53.4	104.5	55.7	42.0
52.5°	27.3	30.7	71.6	31.8	28.4
55°	20.4	21.6	38.6	22.7	21.6
57.5°	15.9	17.0	20.4	17.0	15.9
60°	12.5	12.5	14.8	13.6	12.5
62.5°	9.1	9.1	10.2	9.1	9.1
65°	6.8	6.8	6.8	6.8	6.8
67.5°	3.4	4.5	4.5	4.5	4.5
70°	3.4	2.3	2.3	2.3	3.4
72.5°	2.3	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)