

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: P755372

Luminaire Tested: LD4D90BD010-EU4DR3070959035-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755372
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-EU4DR3070959035-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8928.1 lumens
Efficiency: N/A
Efficacy: 90.3 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): 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

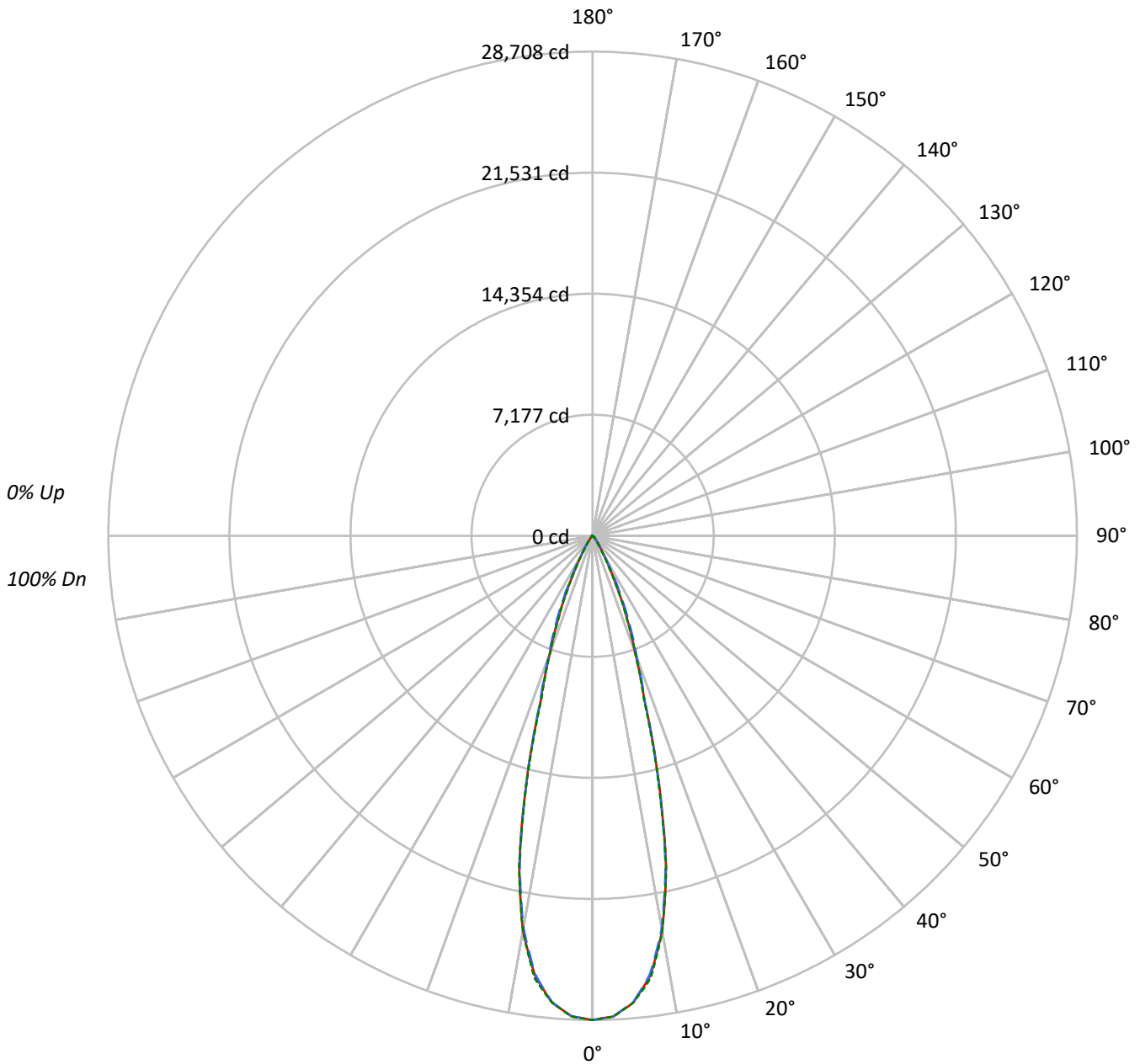


Downlight

TEST NUMBER: P755372

CATALOG NUMBER: LD4D90BD010-EU4DR3070959035-4LBS1H

Luminous Intensity Polar Plot





TEST NUMBER: P755372

CATALOG NUMBER: LD4D90BD010-EU4DR3070959035-4LBS1H

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20										
RC	80					70					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°	2197431	2197431	2197431
5°	2134344	2131855	2134452
10°	1848662	1835628	1848227
15°	1206166	1199684	1193654
20°	599767	622273	598961
25°	302125	340688	295935
30°	120963	131799	105390
35°	56103	53739	45039
40°	24221	26899	22812
45°	17092	21206	17244
50°	5871	15445	6216
55°	3390	6392	3576
60°	2373	2801	2373
65°	1539	1539	1539
70°	940	627	940
75°	0	414	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 21206 cd/sqm



TEST NUMBER: P755372

CATALOG NUMBER: LD4D90BD010-EU4DR3070959035-4LBS1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2524.5	28.3
10°-20°	4065.7	45.5
20°-30°	1756.9	19.7
30°-40°	400.4	4.5
40°-50°	137.5	1.5
50°-60°	33.6	0.4
60°-70°	8.7	0.1
70°-80°	0.9	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°	8347.0	93.5
0°-40°	8747.4	98.0
0°-60°	8918.5	99.9
0°-90°	8928.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8928.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28708	28708	28708	28708	28708	
5°	27778	27751	27746	27803	27779	2527
15°	15221	15038	15139	15090	15063	4076
25°	3577	3713	4034	3618	3504	1712
35°	600	613	575	571	482	407
45°	158	196	196	196	159	112
55°	25	27	48	28	27	25
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: P755372

CATALOG NUMBER: LD4D90BD010-EU4DR3070959035-4LBS1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	28708.3	28708.3	28708.3	28708.3	28708.3
2.5°	28518.0	28498.2	28509.5	28523.6	28529.3
5°	27778.0	27751.2	27745.6	27803.4	27779.4
7.5°	26285.4	26247.3	26189.5	26320.6	26443.2
10°	23784.9	23742.7	23617.2	23679.2	23779.3
12.5°	20093.5	19956.8	19954.0	20151.3	20124.5
15°	15221.0	15037.7	15139.2	15089.9	15063.1
17.5°	10235.6	10165.2	10300.5	10259.6	10083.4
20°	7363.1	7381.4	7639.4	7509.7	7353.2
22.5°	5372.9	5439.2	5745.0	5411.0	5288.4
25°	3577.3	3712.6	4033.9	3618.1	3504.0
27.5°	2200.2	2262.2	2587.8	2172.0	2110.0
30°	1368.6	1337.6	1491.2	1279.8	1192.4
32.5°	897.8	858.4	907.7	814.7	744.2
35°	600.4	613.1	575.1	570.8	482.0
37.5°	374.9	431.3	380.6	405.9	310.1
40°	242.4	312.9	269.2	297.4	228.3
42.5°	198.7	241.0	221.3	235.4	203.0
45°	157.9	195.9	195.9	195.9	159.3
47.5°	87.4	131.1	167.7	133.9	93.0
50°	49.3	66.2	129.7	69.1	52.2
52.5°	33.8	38.1	88.8	39.5	35.2
55°	25.4	26.8	47.9	28.2	26.8
57.5°	19.7	21.1	25.4	21.1	19.7
60°	15.5	15.5	18.3	16.9	15.5
62.5°	11.3	11.3	12.7	11.3	11.3
65°	8.5	8.5	8.5	8.5	8.5
67.5°	4.2	5.6	5.6	5.6	5.6
70°	4.2	2.8	2.8	2.8	4.2
72.5°	2.8	1.4	1.4	1.4	1.4
75°	0.0	0.0	1.4	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)