

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: P755393

Luminaire Tested: LD4D90BD010-EU4DR3070959050-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755393
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-EU4DR3070959050-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7198.9 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

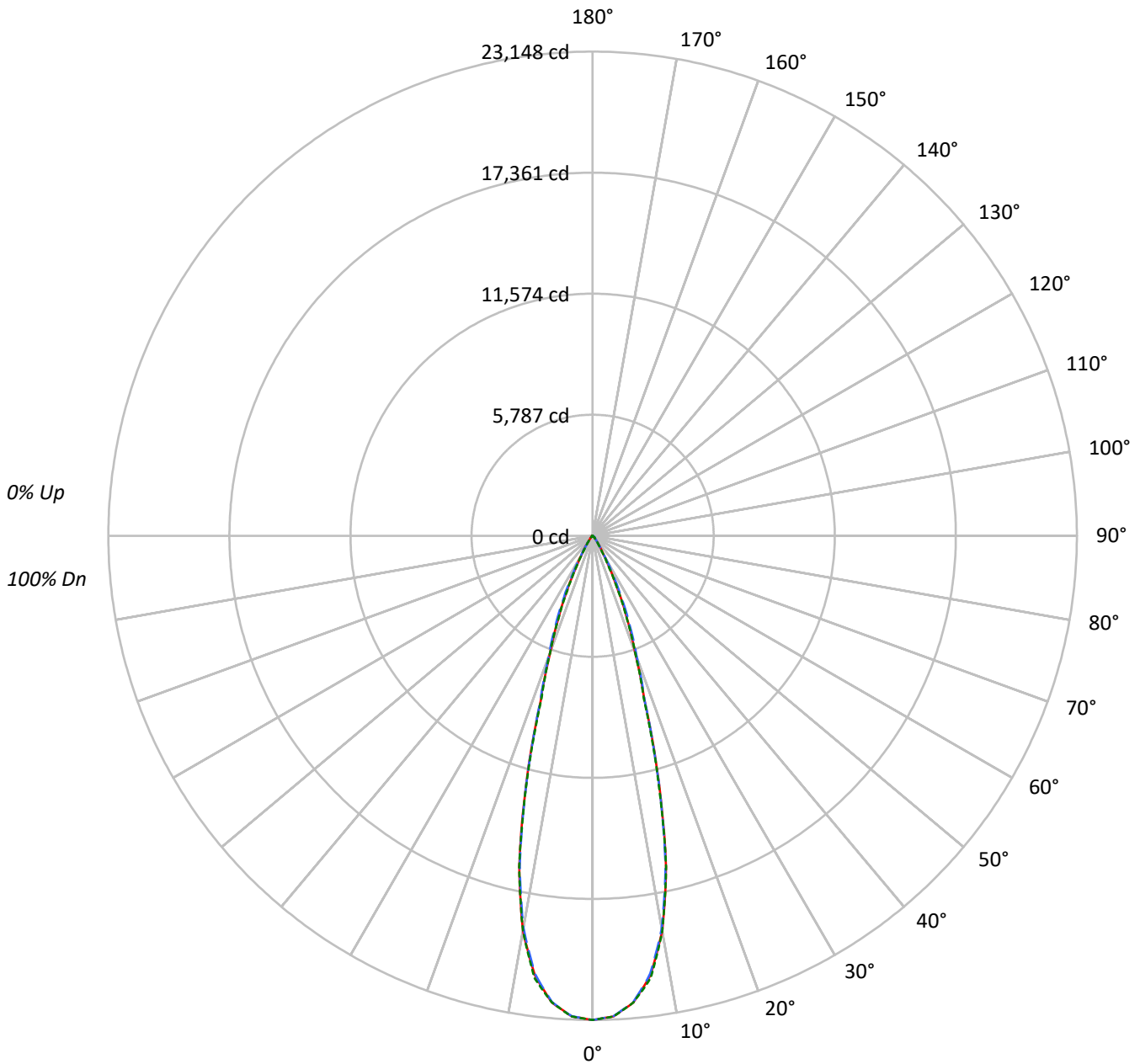
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P755393
CATALOG NUMBER: LD4D90BD010-EU4DR3070959050-4LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P755393

CATALOG NUMBER: LD4D90BD010-EU4DR3070959050-4LBDP1B

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°	1771819	1771819	1771819
5°	1720952	1718947	1721037
10°	1490603	1480094	1490253
15°	972548	967326	962461
20°	483603	501743	482951
25°	243606	274703	238614
30°	97533	106274	84982
35°	45235	43329	36321
40°	19534	21693	18395
45°	13780	17103	13899
50°	4739	12456	5001
55°	2736	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: 17103 cd/sqm



TEST NUMBER: P755393

CATALOG NUMBER: LD4D90BD010-EU4DR3070959050-4LBDP1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2035.5	28.3
10°-20°	3278.2	45.5
20°-30°	1416.6	19.7
30°-40°	322.9	4.5
40°-50°	110.9	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°	6730.3	93.5
0°-40°	7053.2	98.0
0°-60°	7191.1	99.9
0°-90°	7198.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7198.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23148	23148	23148	23148	23148	
5°	22398	22376	22372	22418	22399	2037
15°	12273	12125	12207	12167	12146	3286
25°	2884	2994	3253	2917	2825	1381
35°	484	494	464	460	389	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: P755393

CATALOG NUMBER: LD4D90BD010-EU4DR3070959050-4LBDP1B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	23147.9	23147.9	23147.9	23147.9	23147.9
2.5°	22994.5	22978.5	22987.6	22999.0	23003.6
5°	22397.8	22376.2	22371.7	22418.3	22398.9
7.5°	21194.3	21163.6	21117.0	21222.7	21321.6
10°	19178.1	19144.1	19042.9	19092.9	19173.6
12.5°	16201.7	16091.5	16089.2	16248.3	16226.7
15°	12272.9	12125.1	12207.0	12167.2	12145.6
17.5°	8253.1	8196.3	8305.4	8272.5	8130.4
20°	5937.0	5951.8	6159.7	6055.2	5929.0
22.5°	4332.3	4385.7	4632.3	4363.0	4264.1
25°	2884.4	2993.5	3252.6	2917.4	2825.3
27.5°	1774.0	1824.1	2086.6	1751.3	1701.3
30°	1103.5	1078.5	1202.4	1031.9	961.5
32.5°	723.9	692.1	731.9	656.9	600.1
35°	484.1	494.4	463.7	460.3	388.7
37.5°	302.3	347.8	306.9	327.3	250.0
40°	195.5	252.3	217.1	239.8	184.1
42.5°	160.2	194.3	178.4	189.8	163.7
45°	127.3	158.0	158.0	158.0	128.4
47.5°	70.5	105.7	135.2	108.0	75.0
50°	39.8	53.4	104.6	55.7	42.0
52.5°	27.3	30.7	71.6	31.8	28.4
55°	20.5	21.6	38.6	22.7	21.6
57.5°	15.9	17.0	20.5	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)