

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: P753769

Luminaire Tested: LD4D80BD010-EU4DR3070959024-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753769
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-EU4DR3070959024-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6368.3 lumens
Efficiency: N/A
Efficacy: 80.7 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

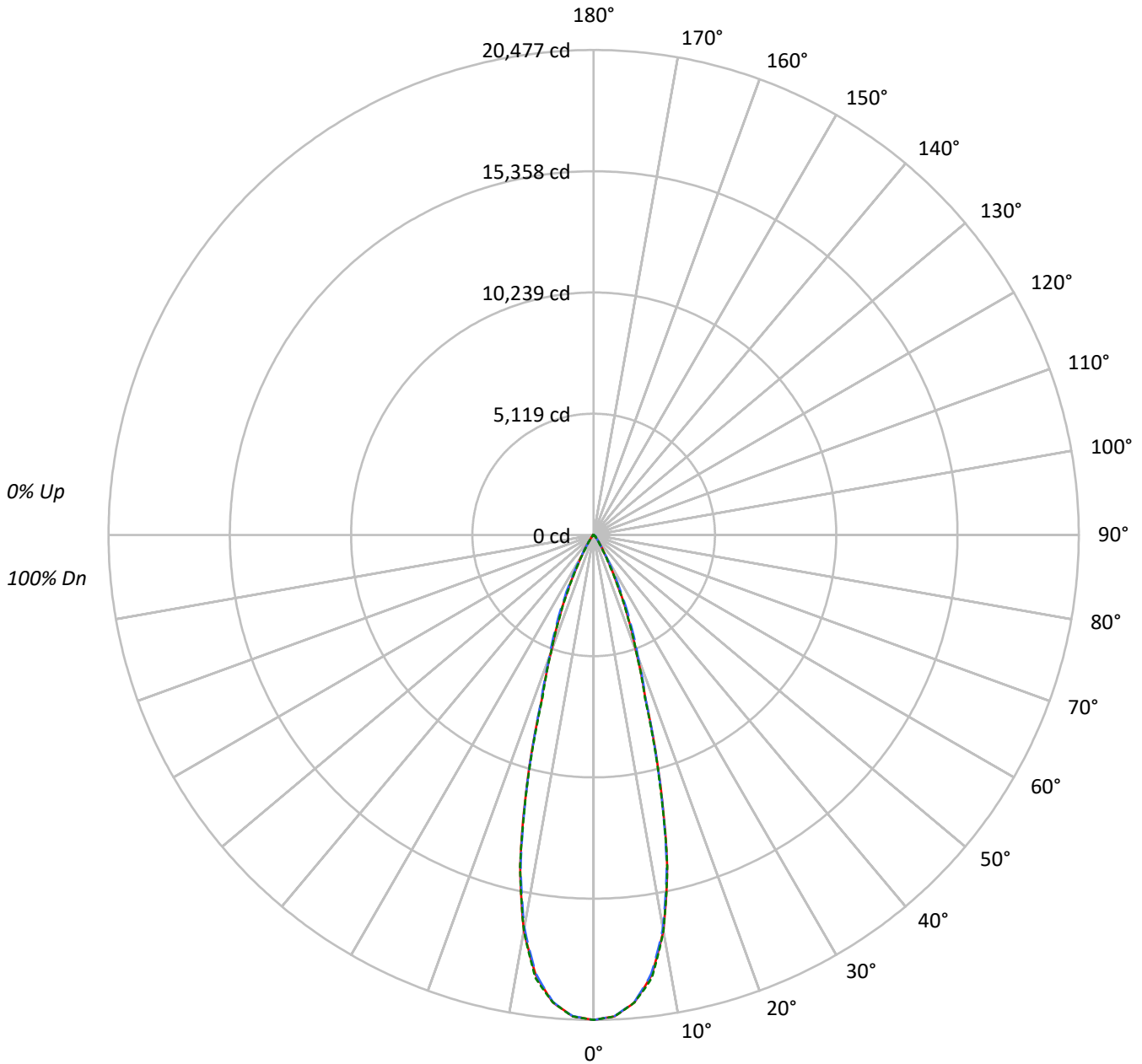
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P753769
CATALOG NUMBER: LD4D80BD010-EU4DR3070959024-4LBDP1H

Luminous Intensity Polar Plot





TEST NUMBER: P753769

CATALOG NUMBER: LD4D80BD010-EU4DR3070959024-4LBDP1H

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	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°	1567394	1567394	1567394
5°	1522393	1520618	1522470
10°	1318630	1309326	1318311
15°	860339	855719	851417
20°	427806	443861	427236
25°	215499	243006	211082
30°	86281	94015	75171
35°	40021	38330	32125
40°	17276	19185	16277
45°	12189	15122	12297
50°	4192	11015	4430
55°	2415	4564	2549
60°	1699	2005	1699
65°	1087	1087	1087
70°	671	448	671
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 15122 cd/sqm



TEST NUMBER: P753769

CATALOG NUMBER: LD4D80BD010-EU4DR3070959024-4LBDP1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1800.7	28.3
10°-20°	2900.0	45.5
20°-30°	1253.2	19.7
30°-40°	285.6	4.5
40°-50°	98.1	1.5
50°-60°	24.0	0.4
60°-70°	6.2	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°	5953.8	93.5
0°-40°	6239.4	98.0
0°-60°	6361.4	99.9
0°-90°	6368.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6368.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20477	20477	20477	20477	20477	
5°	19814	19794	19790	19832	19815	1802
15°	10857	10726	10799	10763	10744	2907
25°	2552	2648	2877	2581	2499	1221
35°	428	437	410	407	344	290
45°	113	140	140	140	114	80
55°	18	19	34	20	19	18
65°	6	6	6	6	6	6
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P753769

CATALOG NUMBER: LD4D80BD010-EU4DR3070959024-4LBDP1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20477.2	20477.2	20477.2	20477.2	20477.2
2.5°	20341.5	20327.4	20335.4	20345.5	20349.5
5°	19813.6	19794.5	19790.5	19831.7	19814.6
7.5°	18749.0	18721.8	18680.6	18774.1	18861.6
10°	16965.5	16935.3	16845.8	16890.1	16961.4
12.5°	14332.4	14234.9	14232.9	14373.6	14354.5
15°	10856.9	10726.2	10798.6	10763.4	10744.3
17.5°	7300.9	7250.7	7347.2	7318.0	7192.3
20°	5252.0	5265.1	5449.1	5356.6	5245.0
22.5°	3832.4	3879.7	4097.8	3859.6	3772.1
25°	2551.6	2648.1	2877.3	2580.8	2499.3
27.5°	1569.4	1613.6	1845.8	1549.3	1505.0
30°	976.2	954.1	1063.7	912.9	850.5
32.5°	640.4	612.3	647.5	581.1	530.8
35°	428.3	437.3	410.2	407.2	343.8
37.5°	267.4	307.6	271.4	289.5	221.2
40°	172.9	223.2	192.0	212.1	162.9
42.5°	141.8	171.9	157.8	167.9	144.8
45°	112.6	139.7	139.7	139.7	113.6
47.5°	62.3	93.5	119.6	95.5	66.4
50°	35.2	47.3	92.5	49.3	37.2
52.5°	24.1	27.1	63.3	28.2	25.1
55°	18.1	19.1	34.2	20.1	19.1
57.5°	14.1	15.1	18.1	15.1	14.1
60°	11.1	11.1	13.1	12.1	11.1
62.5°	8.0	8.0	9.0	8.0	8.0
65°	6.0	6.0	6.0	6.0	6.0
67.5°	3.0	4.0	4.0	4.0	4.0
70°	3.0	2.0	2.0	2.0	3.0
72.5°	2.0	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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)