

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: P755710

Luminaire Tested: LD4D90BD010-EU4DR5070959050-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755710
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D90BD010-EU4DR5070959050-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9998.6 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.73
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

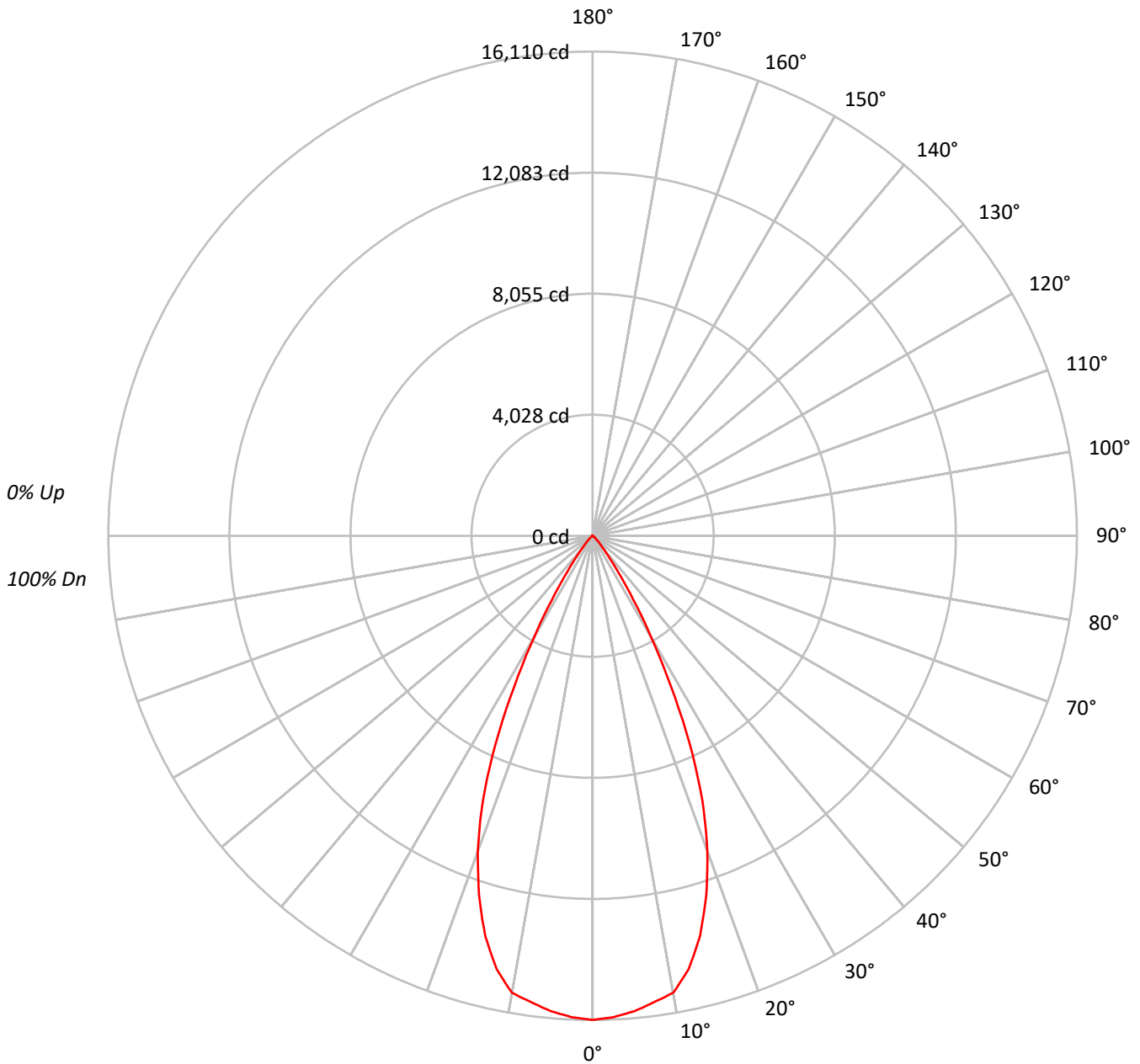
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P755710
CATALOG NUMBER: LD4D90BD010-EU4DR5070959050-4LBS1H

Luminous Intensity Polar Plot





TEST NUMBER: P755710

CATALOG NUMBER: LD4D90BD010-EU4DR5070959050-4LBS1H

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	114	112	109	107	112	110	108	106	106	104	102	102	101	99	98	97	97	95			
2	109	105	101	98	107	103	100	97	100	98	95	97	95	93	95	93	91	90			
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	85			
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80			
5	96	89	84	80	95	88	83	79	86	82	79	85	81	78	83	80	77	76			
6	92	84	79	75	91	83	79	75	82	78	74	81	77	74	79	76	74	72			
7	88	80	75	71	87	79	74	71	78	74	71	77	73	70	76	73	70	69			
8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	65			
9	81	73	68	64	80	72	67	64	71	67	64	71	67	64	70	66	63	62			
10	78	70	64	61	77	69	64	61	68	64	61	68	64	61	67	63	60	59			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1760213
5°	1741765
10°	1713077
15°	1559891
20°	1298012
25°	921397
30°	487697
35°	198740
40°	73811
45°	33793
50°	13853
55°	7239
60°	3562
65°	1060
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 33793 cd/sqm



TEST NUMBER: P755710

CATALOG NUMBER: LD4D90BD010-EU4DR5070959050-4LBS1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1501.0	15.0
10°-20°	3793.5	37.9
20°-30°	3407.5	34.1
30°-40°	1066.9	10.7
40°-50°	186.8	1.9
50°-60°	37.2	0.4
60°-70°	5.6	0.1
70°-80°	0.0	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°	8702.0	87.0
0°-40°	9768.9	97.7
0°-60°	9992.9	99.9
0°-90°	9998.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9998.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16110	
5°	15881	###
15°	13790	3793
25°	7643	3408
35°	1490	1067
45°	219	187
55°	38	37
65°	4	6
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P755710

CATALOG NUMBER: LD4D90BD010-EU4DR5070959050-4LBS1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	16110.2
2.5°	16030.1
5°	15880.7
7.5°	15652.5
10°	15440.6
12.5°	14761.5
15°	13790.3
17.5°	12557.0
20°	11163.5
22.5°	9551.2
25°	7642.9
27.5°	5619.1
30°	3865.6
32.5°	2516.8
35°	1490.0
37.5°	855.7
40°	517.5
42.5°	336.8
45°	218.7
47.5°	133.1
50°	81.5
52.5°	55.7
55°	38.0
57.5°	25.8
60°	16.3
62.5°	9.5
65°	4.1
67.5°	1.4
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	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



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

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)