

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: P755666

Luminaire Tested: LD4D90BD010-EU4DR5070959030-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755666
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-EU4DR5070959030-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7950.6 lumens
Efficiency: N/A
Efficacy: 80.4 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

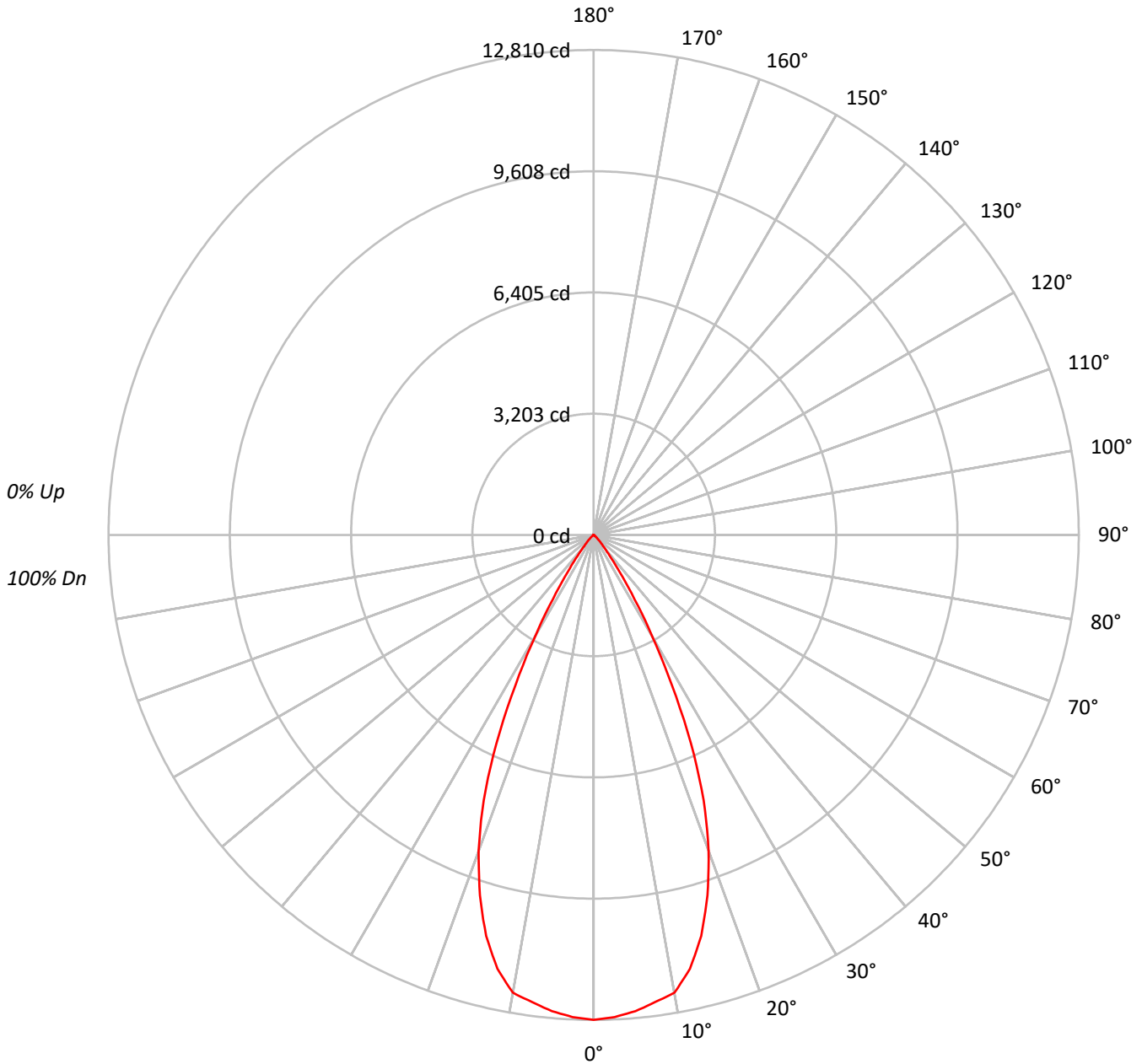
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P755666
CATALOG NUMBER: LD4D90BD010-EU4DR5070959030-4LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P755666

CATALOG NUMBER: LD4D90BD010-EU4DR5070959030-4LBDP1B

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°	1399674
5°	1385004
10°	1362187
15°	1240386
20°	1032143
25°	732666
30°	387801
35°	158032
40°	58692
45°	26871
50°	11015
55°	5753
60°	2841
65°	827
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 26871 cd/sqm



TEST NUMBER: P755666

CATALOG NUMBER: LD4D90BD010-EU4DR5070959030-4LBDP1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1193.6	15.0
10°-20°	3016.5	37.9
20°-30°	2709.6	34.1
30°-40°	848.3	10.7
40°-50°	148.6	1.9
50°-60°	29.6	0.4
60°-70°	4.5	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°	6919.6	87.0
0°-40°	7767.9	97.7
0°-60°	7946.1	99.9
0°-90°	7950.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7950.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12810	
5°	12628	###
15°	10966	3016
25°	6077	2710
35°	1185	848
45°	174	149
55°	30	30
65°	3	4
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P755666

CATALOG NUMBER: LD4D90BD010-EU4DR5070959030-4LBDP1B

CANDELA DISTRIBUTION (FULL):

0°	
0°	12810.4
2.5°	12746.7
5°	12627.9
7.5°	12446.4
10°	12277.9
12.5°	11737.9
15°	10965.7
17.5°	9985.0
20°	8876.9
22.5°	7594.9
25°	6077.4
27.5°	4468.1
30°	3073.8
32.5°	2001.3
35°	1184.8
37.5°	680.4
40°	411.5
42.5°	267.9
45°	173.9
47.5°	105.8
50°	64.8
52.5°	44.3
55°	30.2
57.5°	20.5
60°	13.0
62.5°	7.6
65°	3.2
67.5°	1.1
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)