

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: P755653

Luminaire Tested: LD4D90BD010-EU4DR5070959027-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755653
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-EU4DR5070959027-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7717.3 lumens
Efficiency: N/A
Efficacy: 78.0 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

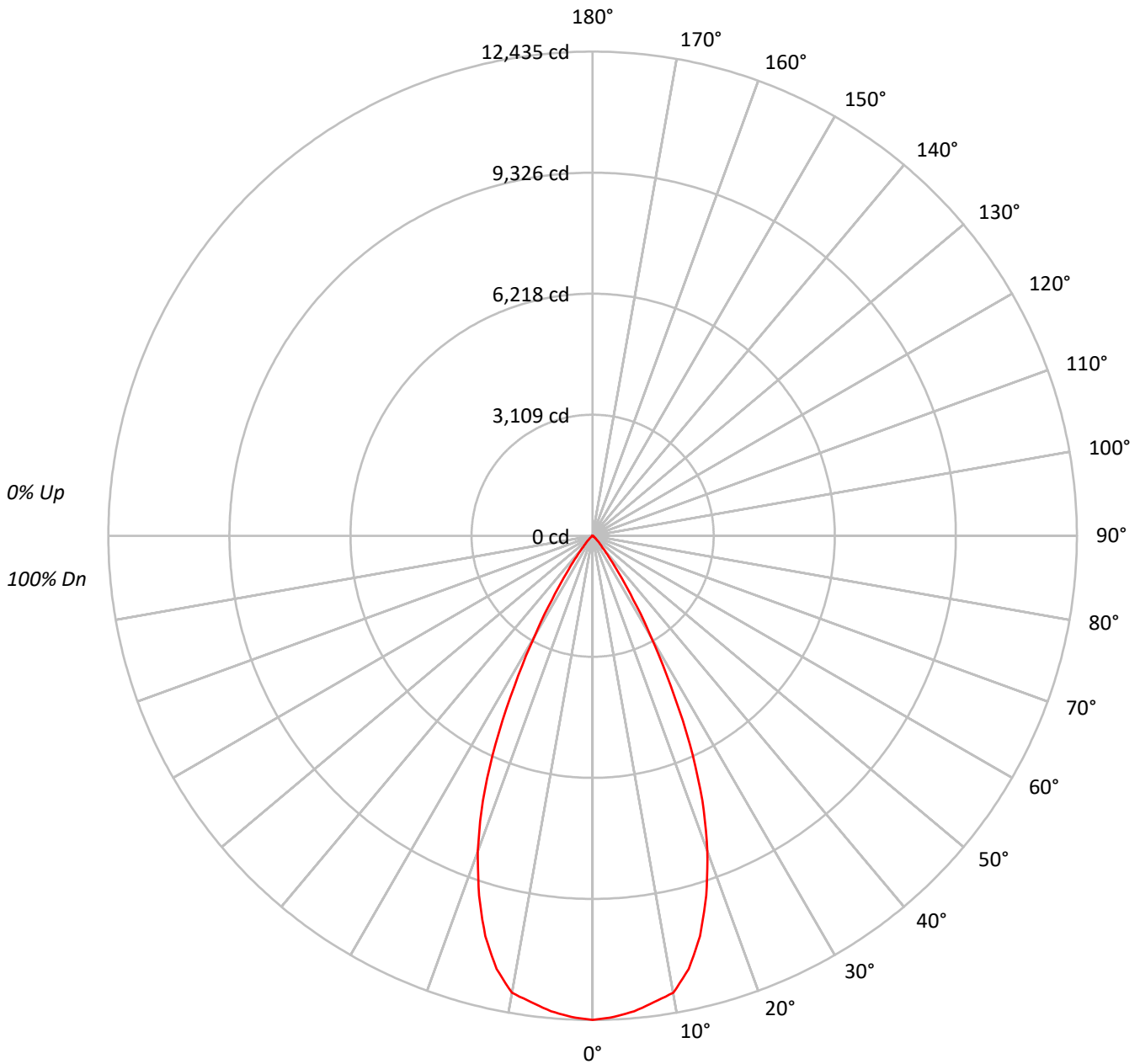


Downlight

TEST NUMBER: P755653

CATALOG NUMBER: LD4D90BD010-EU4DR5070959027-4LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P755653

CATALOG NUMBER: LD4D90BD010-EU4DR5070959027-4LBDP1B

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	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°	1358614
5°	1344379
10°	1322236
15°	1203997
20°	1001865
25°	711171
30°	376421
35°	153404
40°	56966
45°	26083
50°	10692
55°	5600
60°	2753
65°	801
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 26083 cd/sqm



TEST NUMBER: P755653

CATALOG NUMBER: LD4D90BD010-EU4DR5070959027-4LBDP1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1158.6	15.0
10°-20°	2928.0	37.9
20°-30°	2630.1	34.1
30°-40°	823.5	10.7
40°-50°	144.2	1.9
50°-60°	28.8	0.4
60°-70°	4.3	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°	6716.6	87.0
0°-40°	7540.1	97.7
0°-60°	7713.0	99.9
0°-90°	7717.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7717.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12435	
5°	12258	###
15°	10644	2928
25°	5899	2630
35°	1150	823
45°	169	144
55°	29	29
65°	3	4
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P755653

CATALOG NUMBER: LD4D90BD010-EU4DR5070959027-4LBDP1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	12434.6
2.5°	12372.8
5°	12257.5
7.5°	12081.3
10°	11917.8
12.5°	11393.6
15°	10644.0
17.5°	9692.1
20°	8616.5
22.5°	7372.1
25°	5899.1
27.5°	4337.1
30°	2983.6
32.5°	1942.6
35°	1150.1
37.5°	660.5
40°	399.4
42.5°	260.0
45°	168.8
47.5°	102.7
50°	62.9
52.5°	43.0
55°	29.4
57.5°	19.9
60°	12.6
62.5°	7.3
65°	3.1
67.5°	1.0
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)