

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: P753304

Luminaire Tested: LD4D75BD010-EU4DR5070959024-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753304
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: LD4D75BD010-EU4DR5070959024-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6347.3 lumens
Efficiency: N/A
Efficacy: 87.7 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

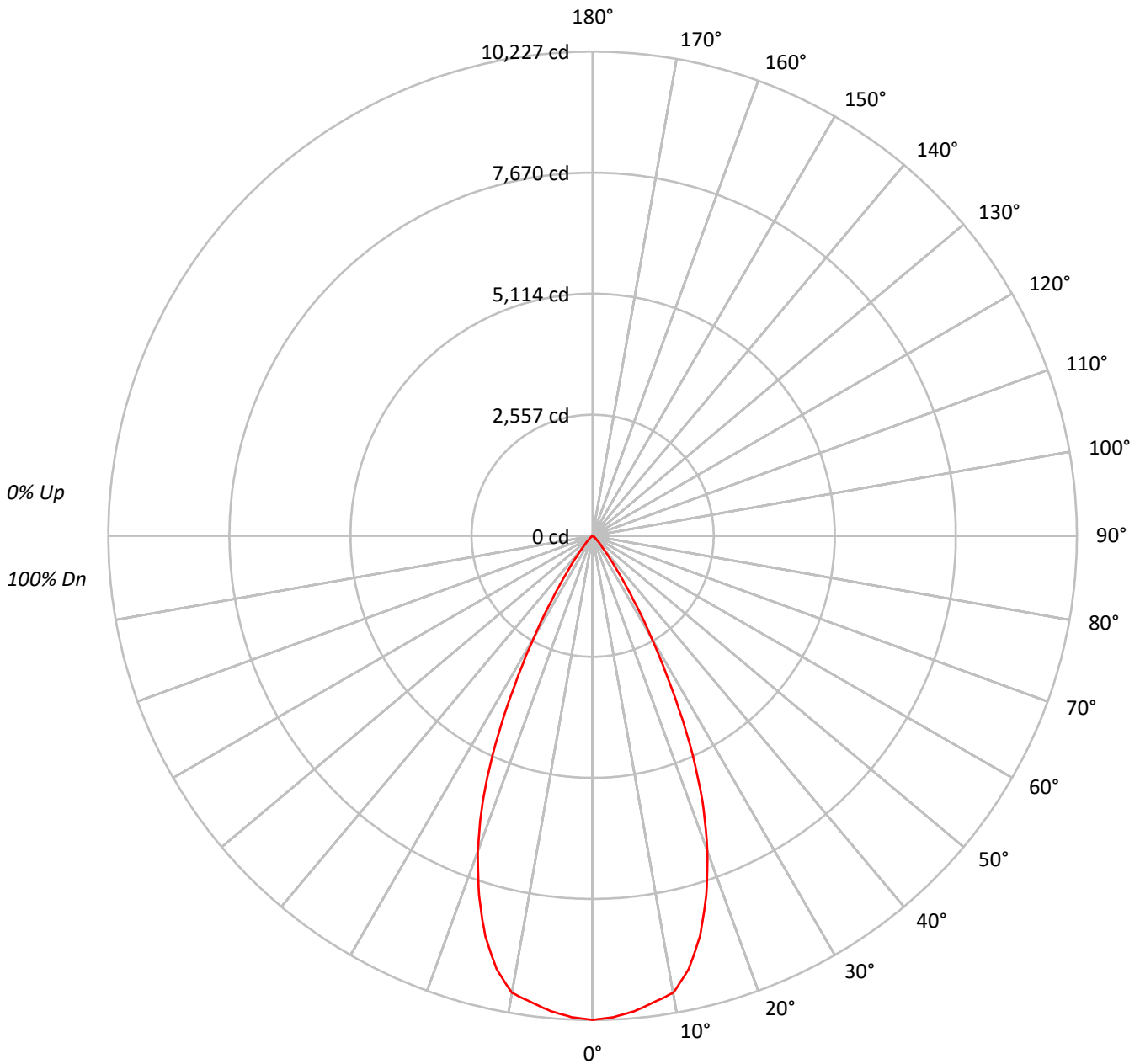
Input Watts (W): 72.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P753304
CATALOG NUMBER: LD4D75BD010-EU4DR5070959024-4LBS1B

Luminous Intensity Polar Plot





TEST NUMBER: P753304

CATALOG NUMBER: LD4D75BD010-EU4DR5070959024-4LBS1B

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°	1117432
5°	1105720
10°	1087507
15°	990266
20°	824014
25°	584925
30°	309605
35°	126167
40°	46854
45°	21447
50°	8788
55°	4591
60°	2251
65°	672
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21447 cd/sqm



TEST NUMBER: P753304

CATALOG NUMBER: LD4D75BD010-EU4DR5070959024-4LBS1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	952.9	15.0
10°-20°	2408.2	37.9
20°-30°	2163.2	34.1
30°-40°	677.3	10.7
40°-50°	118.6	1.9
50°-60°	23.6	0.4
60°-70°	3.6	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°	5524.3	87.0
0°-40°	6201.6	97.7
0°-60°	6343.8	99.9
0°-90°	6347.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6347.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10227	
5°	10082	953
15°	8754	2408
25°	4852	2163
35°	946	677
45°	139	119
55°	24	24
65°	3	4
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P753304

CATALOG NUMBER: LD4D75BD010-EU4DR5070959024-4LBS1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	10227.2
2.5°	10176.3
5°	10081.5
7.5°	9936.6
10°	9802.1
12.5°	9371.0
15°	8754.5
17.5°	7971.5
20°	7086.9
22.5°	6063.4
25°	4851.9
27.5°	3567.1
30°	2454.0
32.5°	1597.8
35°	945.9
37.5°	543.2
40°	328.5
42.5°	213.8
45°	138.8
47.5°	84.5
50°	51.7
52.5°	35.4
55°	24.1
57.5°	16.4
60°	10.3
62.5°	6.0
65°	2.6
67.5°	0.9
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)