

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: P749018

Luminaire Tested: LD4D50D010-EU4DR2540509024-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D50D010-EU4DR2540509024-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 25° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2800.4 lumens
Efficiency: N/A
Efficacy: 59.6 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.45
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

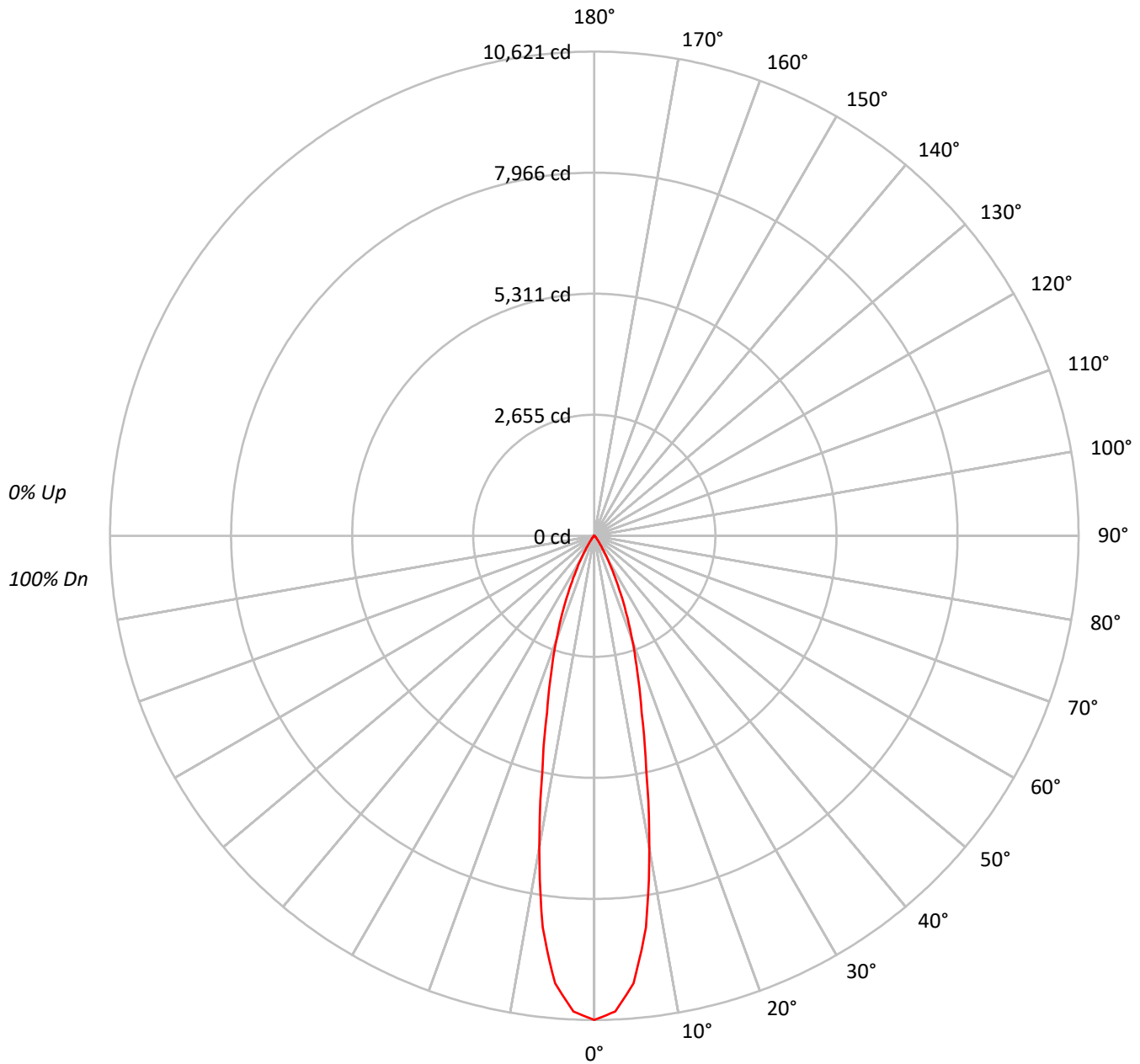
Input Watts (W): 47
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P749018

CATALOG NUMBER: LD4D50D010-EU4DR2540509024-4LBSQW1B

Luminous Intensity Polar Plot





TEST NUMBER: P749018

CATALOG NUMBER: LD4D50D010-EU4DR2540509024-4LBSQW1B

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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	97	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85		
5	100	93	89	86	98	93	89	86	91	87	85	89	86	84	88	85	83	82		
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79		
7	93	87	82	79	92	86	82	79	85	81	78	84	80	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°
0°	1160502
5°	1080867
10°	771010
15°	454100
20°	282543
25°	155059
30°	70916
35°	26850
40°	12166
45°	7309
50°	3043
55°	1962
60°	1377
65°	931
70°	128
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7309 cd/sqm



TEST NUMBER: P749018

CATALOG NUMBER: LD4D50D010-EU4DR2540509024-4LBSQW1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	846.9	30.2
10°-20°	1147.1	41.0
20°-30°	607.0	21.7
30°-40°	149.8	5.4
40°-50°	36.6	1.3
50°-60°	9.6	0.3
60°-70°	3.2	0.1
70°-80°	0.1	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°	2601.1	92.9
0°-40°	2751.0	98.2
0°-60°	2797.1	99.9
0°-90°	2800.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2800.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10621	
5°	9855	847
15°	4014	1147
25°	1286	607
35°	201	150
45°	47	37
55°	10	10
65°	4	3
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P749018

CATALOG NUMBER: LD4D50D010-EU4DR2540509024-4LBSQW1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	10621.4
2.5°	10446.9
5°	9854.9
7.5°	8665.5
10°	6949.4
12.5°	5253.3
15°	4014.5
17.5°	3128.7
20°	2430.0
22.5°	1822.4
25°	1286.2
27.5°	862.5
30°	562.1
32.5°	342.0
35°	201.3
37.5°	123.2
40°	85.3
42.5°	65.2
45°	47.3
47.5°	28.6
50°	17.9
52.5°	12.9
55°	10.3
57.5°	8.0
60°	6.3
62.5°	4.9
65°	3.6
67.5°	1.3
70°	0.4
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



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°







(END OF REPORT)