

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: P749384

Luminaire Tested: LD4D50D010-EU4DR4540509050-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749384
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D50D010-EU4DR4540509050-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

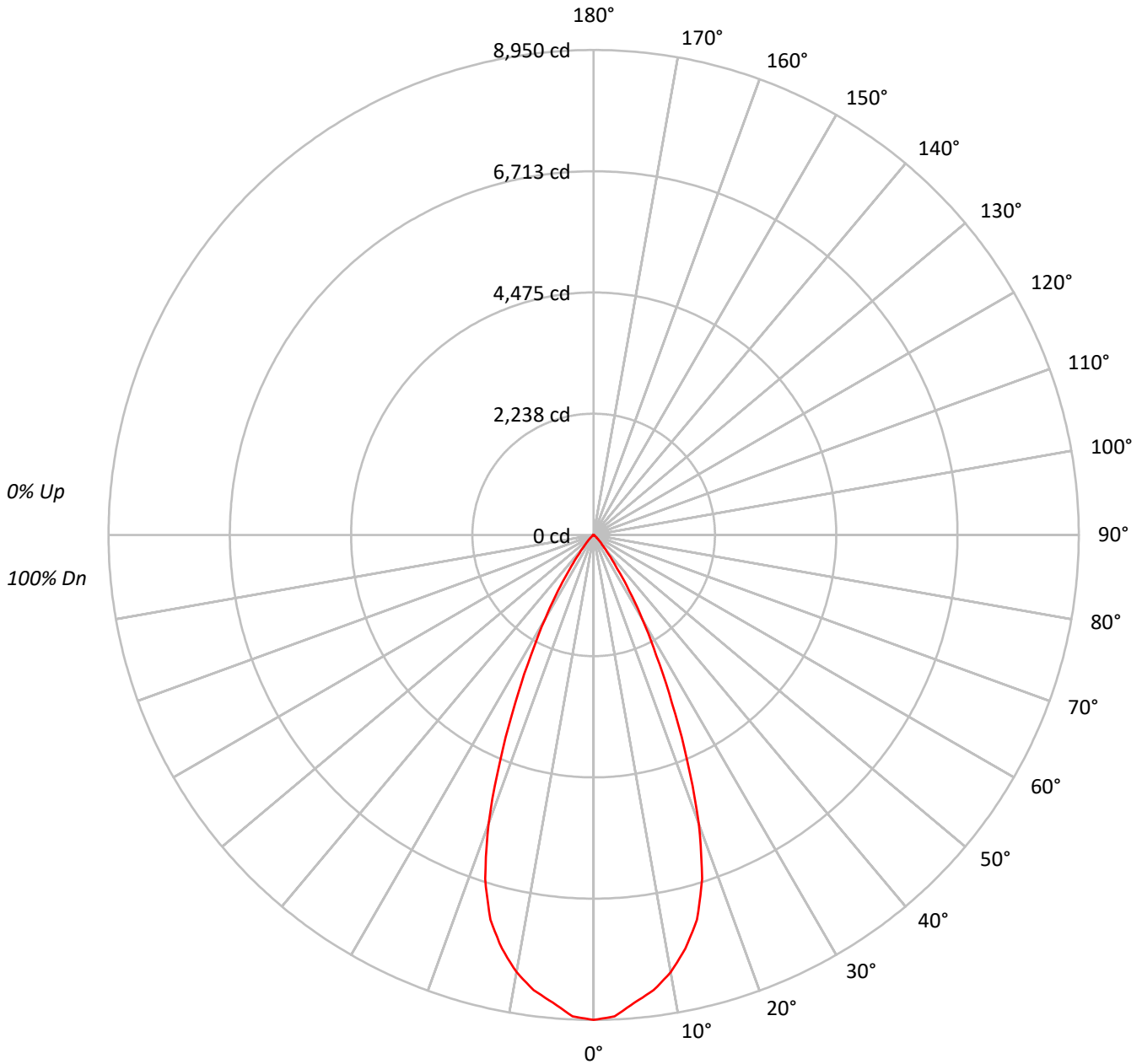
Lumens per Lamp: N/A
Luminaire Lumens: 5063.6 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

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: P749384
CATALOG NUMBER: LD4D50D010-EU4DR4540509050-4LBCSSQMB

Luminous Intensity Polar Plot





TEST NUMBER: P749384
 CATALOG NUMBER: LD4D50D010-EU4DR4540509050-4LBCSSQMB

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	977895
5°	950054
10°	908938
15°	831871
20°	659965
25°	412024
30°	227094
35°	101971
40°	40165
45°	18928
50°	8975
55°	4686
60°	2316
65°	543
70°	224
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18928 cd/sqm



TEST NUMBER: P749384

CATALOG NUMBER: LD4D50D010-EU4DR4540509050-4LBCSSQMB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	813.9	16.1
10°-20°	2003.1	39.6
20°-30°	1586.2	31.3
30°-40°	528.2	10.4
40°-50°	104.8	2.1
50°-60°	23.8	0.5
60°-70°	3.4	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°	4403.2	87.0
0°-40°	4931.5	97.4
0°-60°	5060.1	99.9
0°-90°	5063.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5063.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8950	
5°	8662	814
15°	7354	2003
25°	3418	1586
35°	764	528
45°	122	105
55°	25	24
65°	2	3
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P749384

CATALOG NUMBER: LD4D50D010-EU4DR4540509050-4LBCSSQMB

CANDELA DISTRIBUTION (FULL):

	0°
0°	8950.1
2.5°	8891.7
5°	8662.2
7.5°	8472.8
10°	8192.6
12.5°	7819.5
15°	7354.2
17.5°	6654.5
20°	5676.0
22.5°	4510.2
25°	3417.7
27.5°	2502.6
30°	1800.0
32.5°	1224.2
35°	764.5
37.5°	453.3
40°	281.6
42.5°	185.1
45°	122.5
47.5°	78.8
50°	52.8
52.5°	35.2
55°	24.6
57.5°	16.2
60°	10.6
62.5°	5.6
65°	2.1
67.5°	0.7
70°	0.7
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)