

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: P749345

Luminaire Tested: LD4D50D010-EU4DR4540509030-4LBCSSQMB

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P749345  
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-EU4DR4540509030-4LBCSSQMB  
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 45° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

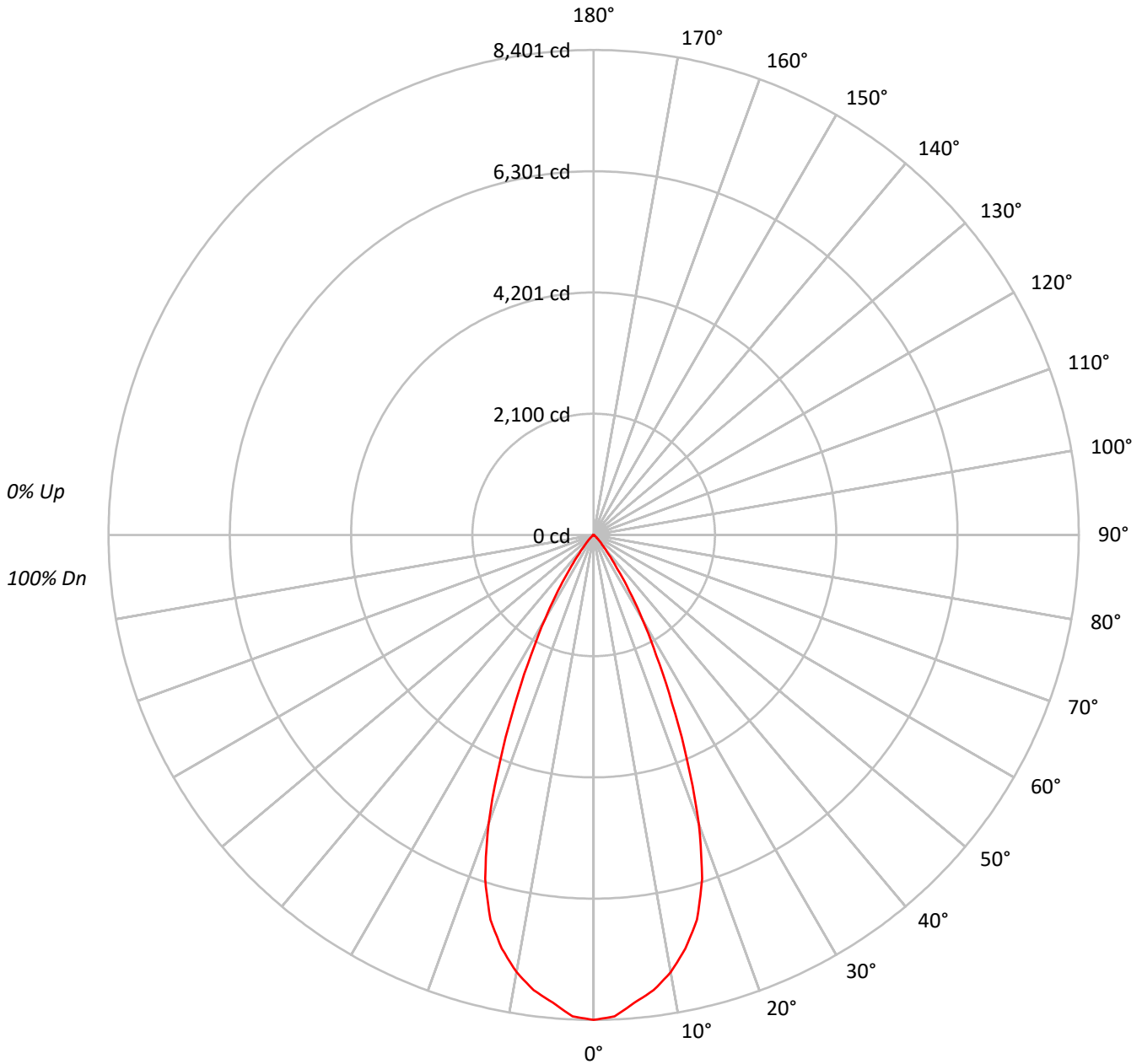
Lumens per Lamp: N/A  
Luminaire Lumens: 4753.1 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

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: P749345  
CATALOG NUMBER: LD4D50D010-EU4DR4540509030-4LBCSSQMB

### Luminous Intensity Polar Plot





TEST NUMBER: P749345  
 CATALOG NUMBER: LD4D50D010-EU4DR4540509030-4LBCSSQMB

**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°	917921
5°	891793
10°	853199
15°	780856
20°	619490
25°	386755
30°	213166
35°	95715
40°	37697
45°	17770
50°	8431
55°	4400
60°	2163
65°	517
70°	224
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17770 cd/sqm



TEST NUMBER: P749345

CATALOG NUMBER: LD4D50D010-EU4DR4540509030-4LBCSSQMB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	764.0	16.1
10°-20°	1880.2	39.6
20°-30°	1489.0	31.3
30°-40°	495.8	10.4
40°-50°	98.4	2.1
50°-60°	22.3	0.5
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°	4133.2	87.0
0°-40°	4629.0	97.4
0°-60°	4749.8	99.9
0°-90°	4753.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4753.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8401	
5°	8131	764
15°	6903	1880
25°	3208	1489
35°	718	496
45°	115	98
55°	23	22
65°	2	3
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P749345

CATALOG NUMBER: LD4D50D010-EU4DR4540509030-4LBCSSQMB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	8401.2
2.5°	8346.4
5°	8131.0
7.5°	7953.2
10°	7690.2
12.5°	7340.0
15°	6903.2
17.5°	6246.4
20°	5327.9
22.5°	4233.6
25°	3208.1
27.5°	2349.1
30°	1689.6
32.5°	1149.1
35°	717.6
37.5°	425.5
40°	264.3
42.5°	173.8
45°	115.0
47.5°	74.0
50°	49.6
52.5°	33.0
55°	23.1
57.5°	15.2
60°	9.9
62.5°	5.3
65°	2.0
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)