

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P749625

Luminaire Tested: LD4D50D010-EU4DR6040509050-4LBS1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P749625  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-60)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D50D010-EU4DR6040509050-4LBS1B  
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 60° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5099.8 lumens  
Efficiency: N/A  
Efficacy: 108.5 lumens/watt  
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

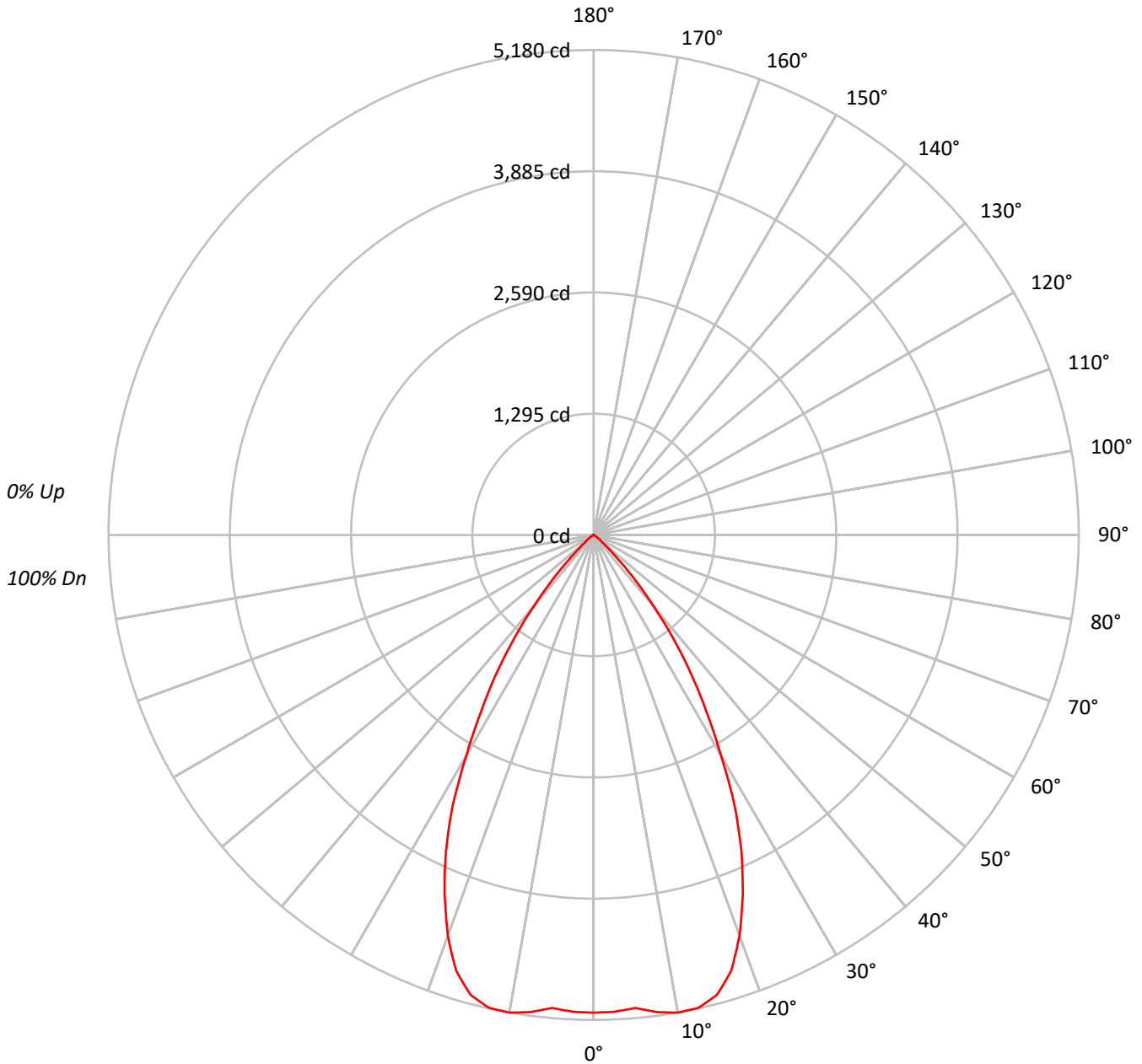
Input Watts (W): 47  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

TEST NUMBER: P749625  
CATALOG NUMBER: LD4D50D010-EU4DR6040509050-4LBS1B

### Luminous Intensity Polar Plot





TEST NUMBER: P749625  
 CATALOG NUMBER: LD4D50D010-EU4DR6040509050-4LBS1B

**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			100	
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94			94	
2	108	103	99	96	106	101	98	95	98	95	92	95	93	90	92	90	89	87			87	
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81			81	
4	97	90	84	80	95	88	83	79	86	82	78	84	81	78	82	79	77	75			75	
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70			70	
6	87	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67	65			65	
7	83	74	68	63	82	73	67	63	72	67	63	71	66	63	69	65	62	61			61	
8	79	69	63	59	78	69	63	59	68	63	59	67	62	59	66	61	58	57			57	
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	55	53			53	
10	72	62	56	52	71	61	56	52	61	55	52	60	55	52	59	55	52	50			50	

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	557623
5°	556254
10°	574735
15°	575326
20°	529367
25°	450264
30°	343089
35°	242610
40°	142473
45°	57481
50°	19191
55°	9239
60°	3802
65°	569
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 57481 cd/sqm



TEST NUMBER: P749625

CATALOG NUMBER: LD4D50D010-EU4DR6040509050-4LBS1B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	489.2	9.6
10°-20°	1409.1	27.6
20°-30°	1686.5	33.1
30°-40°	1128.0	22.1
40°-50°	334.4	6.6
50°-60°	48.1	0.9
60°-70°	4.6	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°	3584.8	70.3
0°-40°	4712.8	92.4
0°-60°	5095.3	99.9
0°-90°	5099.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5099.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5104	
5°	5072	489
15°	5086	1409
25°	3735	1686
35°	1819	1128
45°	372	334
55°	48	48
65°	2	5
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P749625

CATALOG NUMBER: LD4D50D010-EU4DR6040509050-4LBS1B

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5103.6
2.5°	5097.1
5°	5071.7
7.5°	5140.5
10°	5180.3
12.5°	5173.1
15°	5086.2
17.5°	4881.4
20°	4552.8
22.5°	4158.3
25°	3734.9
27.5°	3257.9
30°	2719.4
32.5°	2238.7
35°	1818.9
37.5°	1398.4
40°	998.9
42.5°	658.7
45°	372.0
47.5°	190.4
50°	112.9
52.5°	73.1
55°	48.5
57.5°	31.1
60°	17.4
62.5°	7.2
65°	2.2
67.5°	0.7
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)