

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: P748121

Luminaire Tested: LD4D40BD010-EU4DR6540509035-4LBSQW1B

Issue Date: 2/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P748121  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D40BD010-EU4DR6540509035-4LBSQW1B  
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 65° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

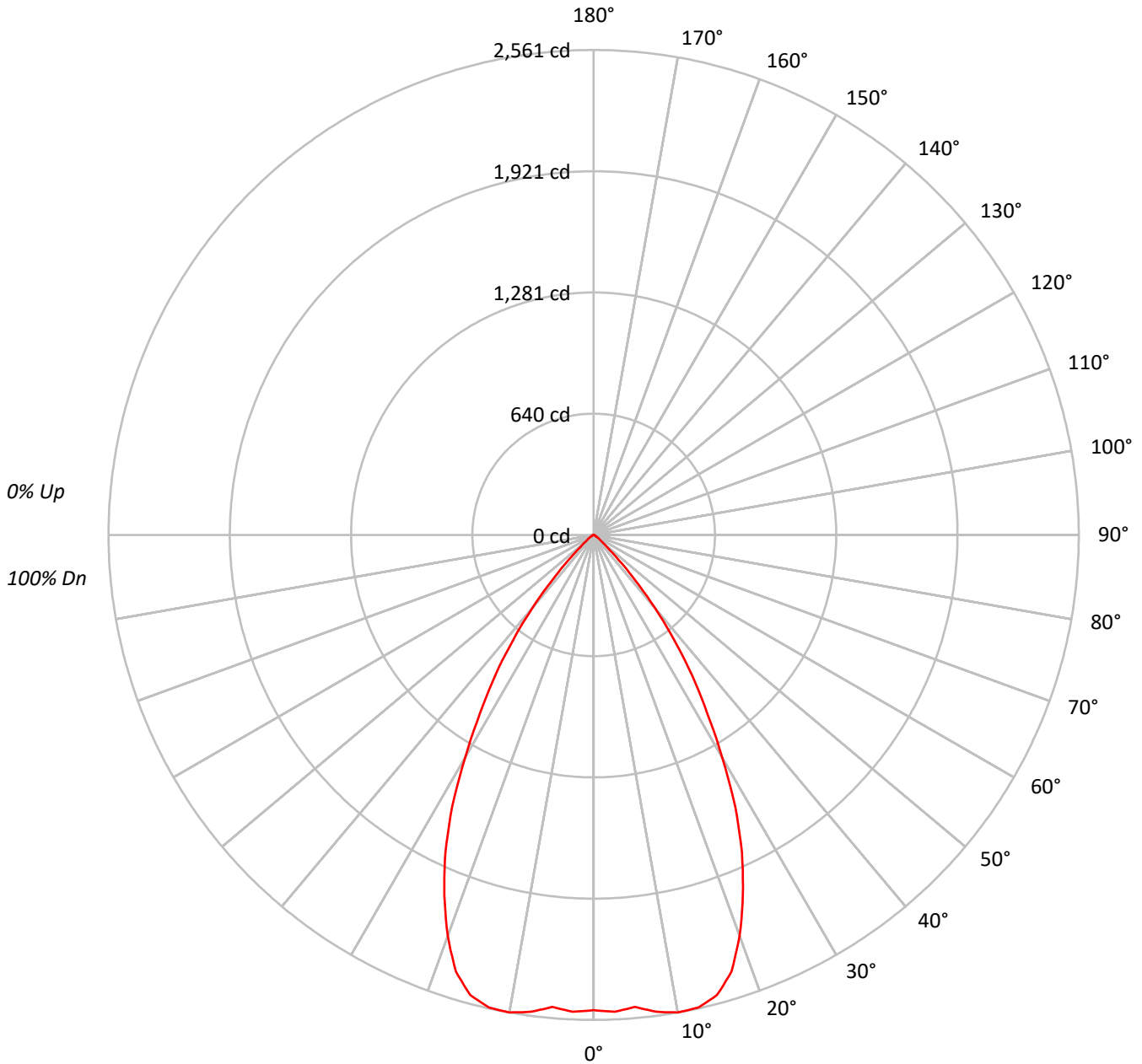
Lumens per Lamp: N/A  
Luminaire Lumens: 2549.1 lumens  
Efficiency: N/A  
Efficacy: 72.4 lumens/watt  
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.2  
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: P748121  
CATALOG NUMBER: LD4D40BD010-EU4DR6540509035-4LBSQW1B

### Luminous Intensity Polar Plot





TEST NUMBER: P748121

CATALOG NUMBER: LD4D40BD010-EU4DR6540509035-4LBSQW1B

**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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93			
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80			
4	97	89	84	79	95	88	83	79	86	82	78	84	80	77	82	79	76	75			
5	92	83	78	73	90	83	77	73	81	76	72	79	75	72	77	74	71	69			
6	87	78	72	68	86	77	72	68	76	71	67	74	70	67	73	69	66	65			
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60			
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57			
9	75	65	59	55	74	65	59	55	64	58	55	63	58	55	62	58	54	53			
10	71	61	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51	50			

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

	0°
0°	274223
5°	274448
10°	284111
15°	284575
20°	261998
25°	223233
30°	170901
35°	120738
40°	71272
45°	28926
50°	10488
55°	5848
60°	3343
65°	1836
70°	1949
75°	1520
80°	1573
85°	1379

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 28926 cd/sqm



TEST NUMBER: P748121

CATALOG NUMBER: LD4D40BD010-EU4DR6540509035-4LBSQW1B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.7	9.5
10°-20°	697.1	27.3
20°-30°	836.4	32.8
30°-40°	562.1	22.1
40°-50°	168.2	6.6
50°-60°	29.7	1.2
60°-70°	8.4	0.3
70°-80°	4.1	0.2
80°-90°	1.3	0.1
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°	1775.2	69.6
0°-40°	2337.2	91.7
0°-60°	2535.2	99.5
0°-90°	2549.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2549.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2510	
5°	2502	242
15°	2516	697
25°	1852	836
35°	905	562
45°	187	168
55°	31	30
65°	7	8
75°	4	4
85°	1	1
90°	0	



TEST NUMBER: P748121

CATALOG NUMBER: LD4D40BD010-EU4DR6540509035-4LBSQW1B

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2509.8
2.5°	2520.5
5°	2502.3
7.5°	2540.1
10°	2560.8
12.5°	2555.8
15°	2515.8
17.5°	2418.1
20°	2253.3
22.5°	2059.3
25°	1851.7
27.5°	1617.4
30°	1354.6
32.5°	1116.3
35°	905.2
37.5°	696.5
40°	499.7
42.5°	326.3
45°	187.2
47.5°	99.1
50°	61.7
52.5°	42.8
55°	30.7
57.5°	22.1
60°	15.3
62.5°	10.0
65°	7.1
67.5°	6.4
70°	6.1
72.5°	4.6
75°	3.6
77.5°	3.2
80°	2.5
82.5°	1.8
85°	1.1
87.5°	0.7
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)