

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: P741809

Luminaire Tested: LD4D10D010-EU4DR100210IC9027-4LBSQW1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P741809  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-4)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D10D010-EU4DR100210IC9027-4LBSQW1B  
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 10° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 836.8 lumens  
Efficiency: N/A  
Efficacy: 71.5 lumens/watt  
Spacing Criteria (0/90/45): 0.17 / 0.17 / 0.18  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.7  
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

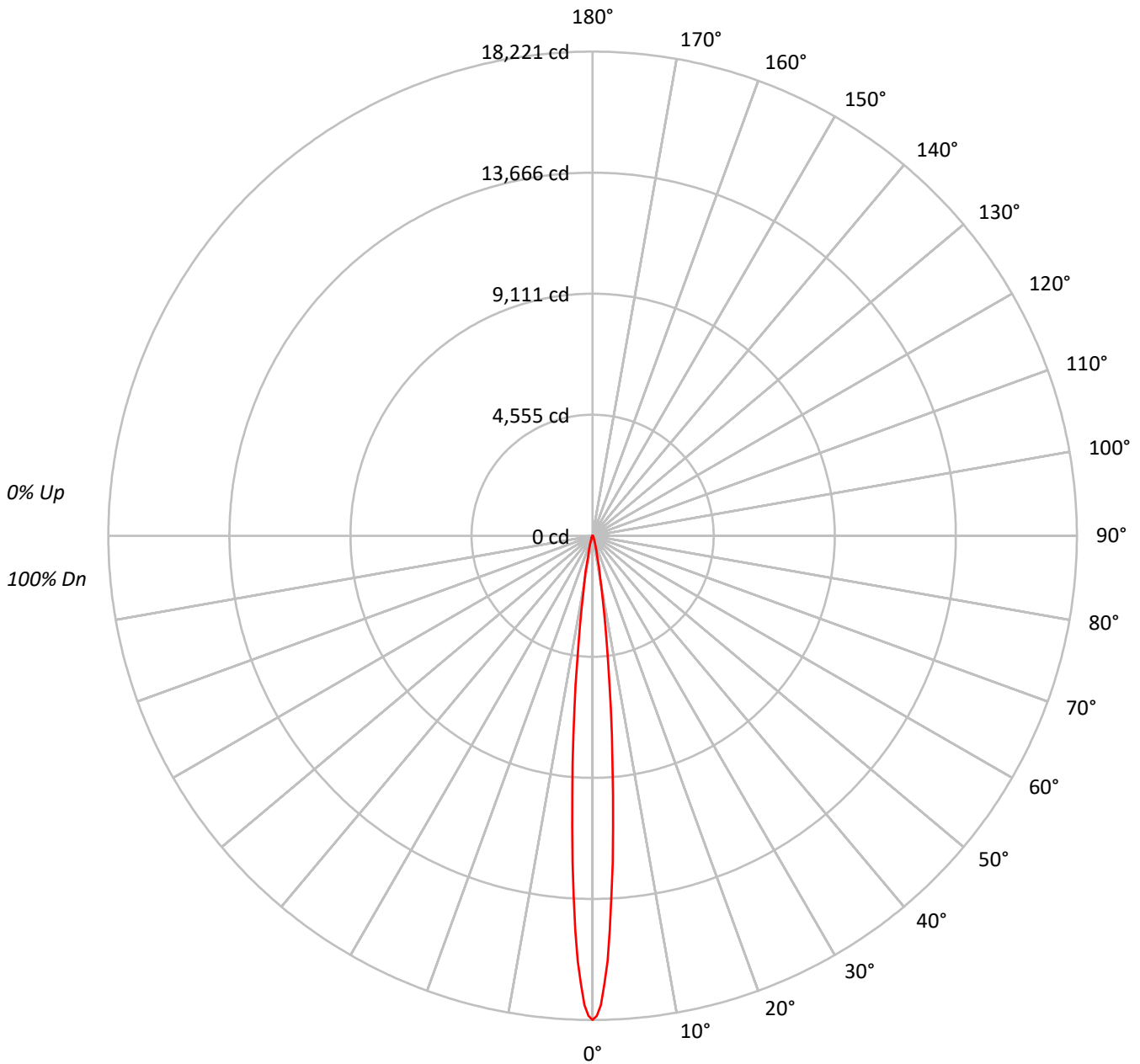


Downlight



TEST NUMBER: P741809  
CATALOG NUMBER: LD4D10D010-EU4DR100210IC9027-4LBSQW1B

### Luminous Intensity Polar Plot





TEST NUMBER: P741809

CATALOG NUMBER: LD4D10D010-EU4DR100210IC9027-4LBSQW1B

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	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	116	114	113	111	114	112	111	109	108	107	106	104	104	103	101	101	100	98						98													
2	113	110	108	106	111	108	106	104	105	104	102	103	101	100	100	99	98	97						97													
3	111	107	104	102	109	106	103	101	103	101	99	101	99	98	99	98	96	95						95													
4	108	104	101	99	107	103	100	98	101	99	97	99	97	96	98	96	95	94						94													
5	106	102	99	96	105	101	98	96	99	97	95	98	96	94	97	95	94	93						93													
6	104	100	96	94	103	99	96	94	98	95	93	97	94	93	96	94	92	91						91													
7	103	98	95	93	102	97	94	92	96	94	92	95	93	92	95	93	91	90						90													
8	101	96	93	91	100	96	93	91	95	92	91	94	92	90	93	92	90	89						89													
9	100	95	92	90	99	94	92	90	94	91	90	93	91	89	93	91	89	88						88													
10	98	94	91	89	98	93	91	89	93	90	88	92	90	88	92	90	88	87						87													

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

	0°
0°	1990884
5°	944076
10°	193612
15°	53153
20°	21417
25°	11477
30°	6788
35°	4415
40°	2952
45°	1916
50°	1054
55°	781
60°	459
65°	0
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1916 cd/sqm



TEST NUMBER: P741809  
 CATALOG NUMBER: LD4D10D010-EU4DR100210IC9027-4LBSQW1B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	595.1	71.1
10°-20°	161.0	19.2
20°-30°	46.1	5.5
30°-40°	21.0	2.5
40°-50°	9.7	1.2
50°-60°	3.2	0.4
60°-70°	0.8	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°	802.2	95.9
0°-40°	823.2	98.4
0°-60°	836.1	99.9
0°-90°	836.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	836.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	18221	
5°	8608	595
15°	470	161
25°	95	46
35°	33	21
45°	12	10
55°	4	3
65°	0	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P741809

CATALOG NUMBER: LD4D10D010-EU4DR100210IC9027-4LBSQW1B

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	18221.4
0.5°	18064.1
1°	17660.4
1.5°	16882.1
2°	16010.5
2.5°	14859.5
3°	13580.2
3.5°	12342.2
4°	11007.0
4.5°	9777.3
5°	8607.7
5.5°	7547.8
6°	6537.5
6.5°	5649.4
7°	4813.1
7.5°	4098.9
8°	3465.4
8.5°	2910.6
9°	2430.4
9.5°	2063.9
10°	1745.1
12.5°	832.2
15°	469.9
17.5°	285.7
20°	184.2
22.5°	128.3
25°	95.2
27.5°	70.4
30°	53.8
32.5°	41.4
35°	33.1
37.5°	24.8
40°	20.7
42.5°	16.6
45°	12.4
47.5°	8.3
50°	6.2
52.5°	4.1
55°	4.1
57.5°	2.1
60°	2.1
62.5°	2.1
65°	0.0



TEST NUMBER: P741809  
CATALOG NUMBER: LD4D10D010-EU4DR100210IC9027-4LBSQW1B

**CANDELA DISTRIBUTION (continued):**

	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





67.5°		0.0
70°		0.0

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

Scaled Data Report



(END OF REPORT)