

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: P740979

Luminaire Tested: LD4D08D010-EU4DR200210IC9040-4LBCSSQMB

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P740979  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D08D010-EU4DR200210IC9040-4LBCSSQMB  
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 20° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 803.1 lumens  
Efficiency: N/A  
Efficacy: 90.2 lumens/watt  
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.36  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

Input Watts (W): 8.9  
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



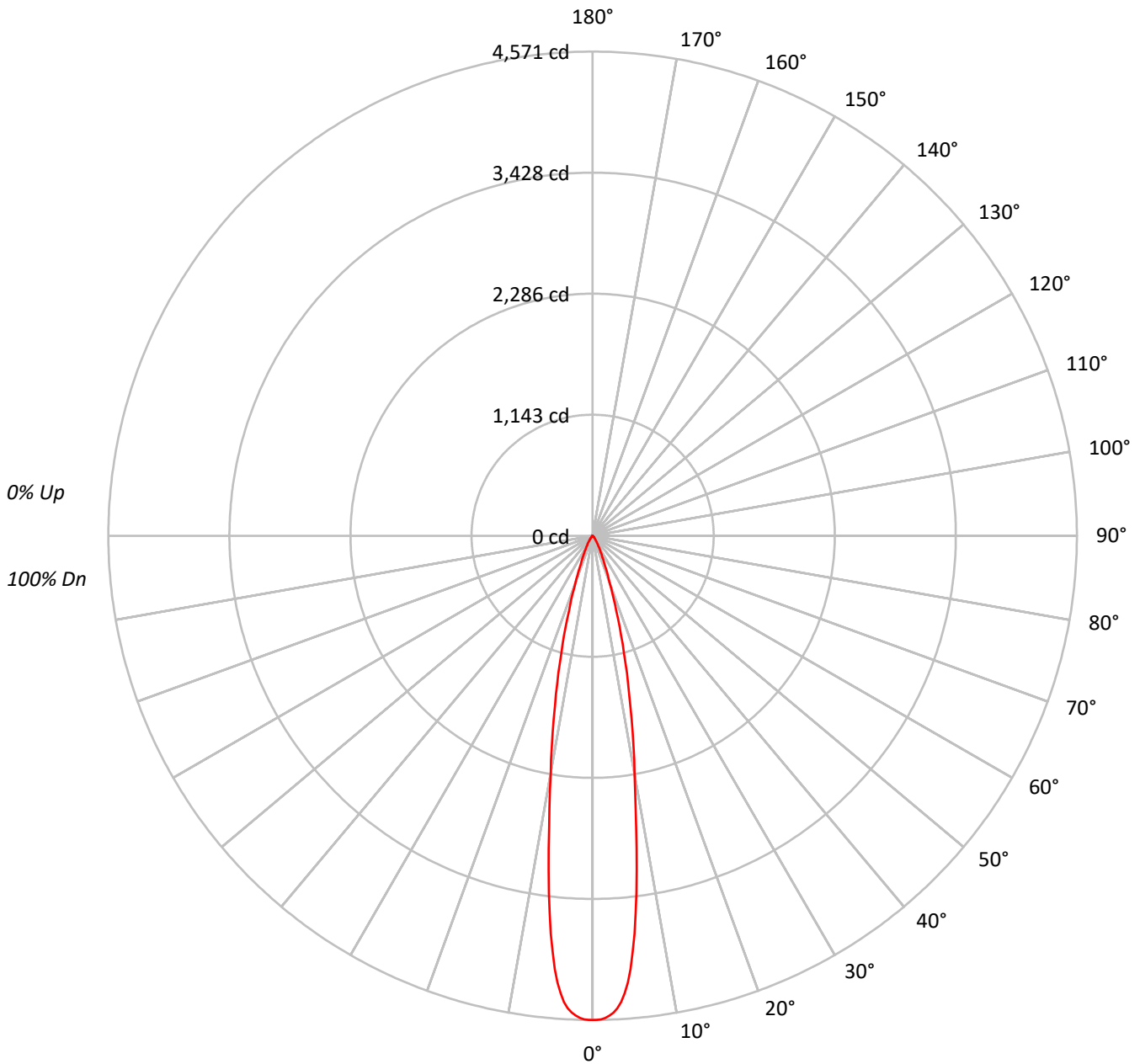
Downlight



TEST NUMBER: P740979

CATALOG NUMBER: LD4D08D010-EU4DR200210IC9040-4LBCSSQMB

### Luminous Intensity Polar Plot





TEST NUMBER: P740979

CATALOG NUMBER: LD4D08D010-EU4DR200210IC9040-4LBCSSQMB

**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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100															
1	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97	97	98	99	97															
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	94	94	98	96	95															
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	91	91	95	93	92															
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88	88	93	91	89															
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85	85	91	88	86															
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83	83	88	86	84															
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	81	81	86	84	82															
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	79	84	82	80															
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77	77	82	80	78															
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	75	75	81	78	76															

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

	0°
0°	499475
5°	450623
10°	252913
15°	128555
20°	54427
25°	25124
30°	13298
35°	7163
40°	3837
45°	2271
50°	1309
55°	705
60°	437
65°	310
70°	128
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2271 cd/sqm



TEST NUMBER: P740979

CATALOG NUMBER: LD4D08D010-EU4DR200210IC9040-4LBCSSQMB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	325.5	40.5
10°-20°	320.5	39.9
20°-30°	104.7	13.0
30°-40°	35.6	4.4
40°-50°	12.0	1.5
50°-60°	3.6	0.4
60°-70°	1.2	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°	750.7	93.5
0°-40°	786.3	97.9
0°-60°	801.9	99.8
0°-90°	803.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	803.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4571	
5°	4109	325
15°	1136	320
25°	208	105
35°	54	36
45°	15	12
55°	4	4
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P740979

CATALOG NUMBER: LD4D08D010-EU4DR200210IC9040-4LBCSSQMB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4571.4
0.5°	4571.4
1°	4565.7
1.5°	4554.3
2°	4533.6
2.5°	4505.9
3°	4466.8
3.5°	4412.2
4°	4331.2
4.5°	4232.7
5°	4108.6
5.5°	3945.3
6°	3778.0
6.5°	3586.3
7°	3398.6
7.5°	3178.8
8°	2982.6
8.5°	2785.2
9°	2602.8
9.5°	2435.5
10°	2279.6
12.5°	1636.8
15°	1136.5
17.5°	742.5
20°	468.1
22.5°	303.3
25°	208.4
27.5°	146.5
30°	105.4
32.5°	75.7
35°	53.7
37.5°	37.5
40°	26.9
42.5°	19.5
45°	14.7
47.5°	11.4
50°	7.7
52.5°	4.9
55°	3.7
57.5°	2.8
60°	2.0
62.5°	1.6
65°	1.2



TEST NUMBER: P740979  
CATALOG NUMBER: LD4D08D010-EU4DR200210IC9040-4LBCSSQMB

**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





— 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°		0.8
70°		0.4

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

Scaled Data Report



(END OF REPORT)