

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: P741616

Luminaire Tested: LD4D08D010-EU4DR600210IC9050-4LBCSSQMB

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P741616  
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: LD4D08D010-EU4DR600210IC9050-4LBCSSQMB  
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 60° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 783.1 lumens  
Efficiency: N/A  
Efficacy: 88.0 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): 8.9  
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



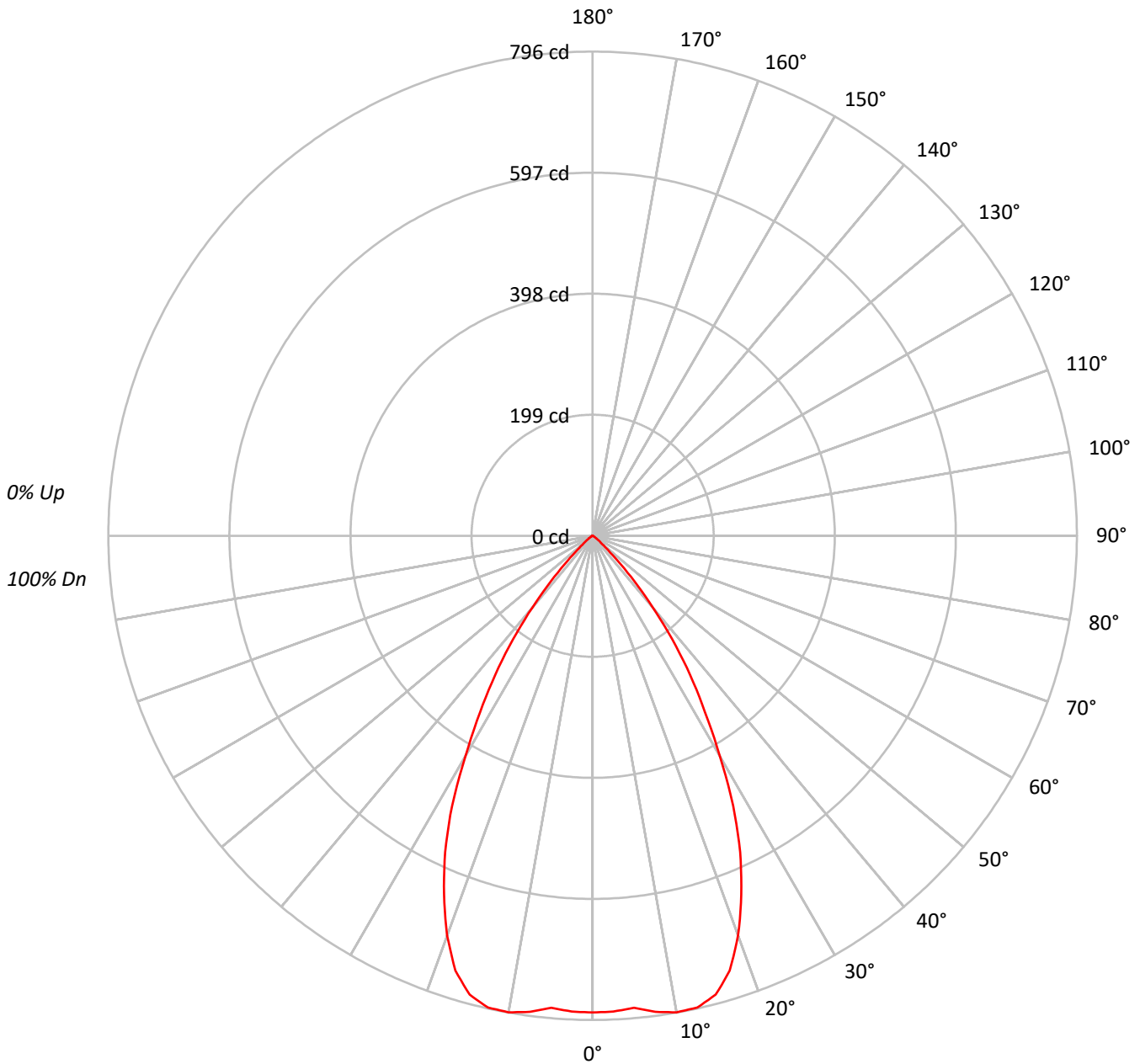
Downlight



TEST NUMBER: P741616

CATALOG NUMBER: LD4D08D010-EU4DR600210IC9050-4LBCSSQMB

### Luminous Intensity Polar Plot





TEST NUMBER: P741616

CATALOG NUMBER: LD4D08D010-EU4DR600210IC9050-4LBCSSQMB

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

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

	0°
0°	85628
5°	85428
10°	88258
15°	88354
20°	81298
25°	69151
30°	52686
35°	37254
40°	21879
45°	8823
50°	2958
55°	1410
60°	590
65°	78
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 8823 cd/sqm



TEST NUMBER: P741616

CATALOG NUMBER: LD4D08D010-EU4DR600210IC9050-4LBCSSQMB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.1	9.6
10°-20°	216.4	27.6
20°-30°	259.0	33.1
30°-40°	173.2	22.1
40°-50°	51.3	6.6
50°-60°	7.4	0.9
60°-70°	0.7	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°	550.5	70.3
0°-40°	723.7	92.4
0°-60°	782.4	99.9
0°-90°	783.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	783.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	784	
5°	779	75
15°	781	216
25°	574	259
35°	279	173
45°	57	51
55°	7	7
65°	0	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P741616

CATALOG NUMBER: LD4D08D010-EU4DR600210IC9050-4LBCSSQMB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	783.7
2.5°	782.8
5°	778.9
7.5°	789.4
10°	795.5
12.5°	794.4
15°	781.1
17.5°	749.6
20°	699.2
22.5°	638.6
25°	573.6
27.5°	500.3
30°	417.6
32.5°	343.8
35°	279.3
37.5°	214.7
40°	153.4
42.5°	101.1
45°	57.1
47.5°	29.2
50°	17.4
52.5°	11.2
55°	7.4
57.5°	4.8
60°	2.7
62.5°	1.1
65°	0.3
67.5°	0.1
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)