

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: P744691

Luminaire Tested: LD4D20D010-EU4DR6520359040-4LBCSSQMB

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P744691  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D20D010-EU4DR6520359040-4LBCSSQMB  
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 65° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1760.3 lumens  
Efficiency: N/A  
Efficacy: 76.2 lumens/watt  
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96  
Luminous Opening: Circular (Dia: 0.48' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.1  
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

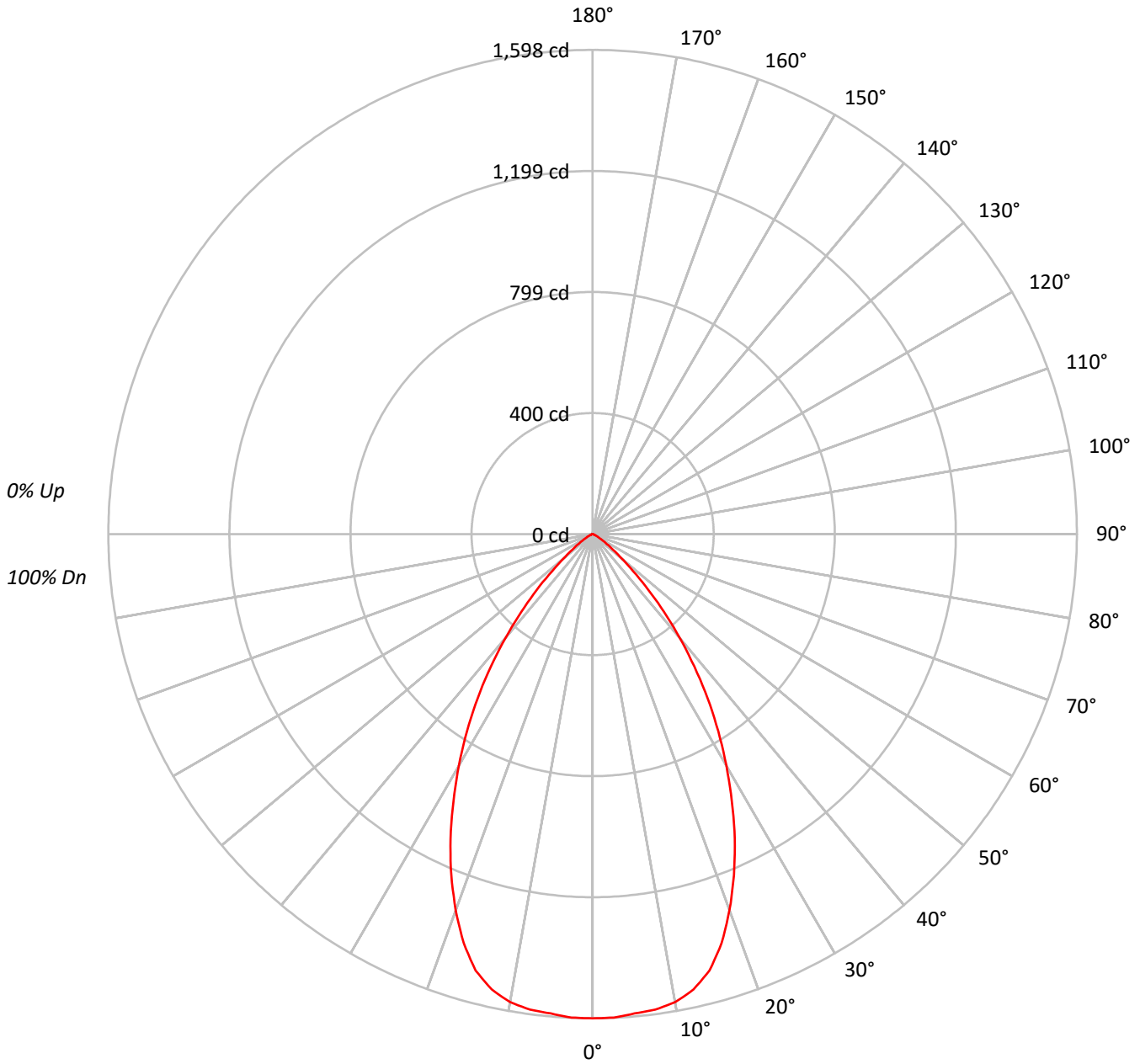


Downlight



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### Luminous Intensity Polar Plot





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**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	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93			93
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85			85
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78			78
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72			72
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66			66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61			61
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56			56
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52			52
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49			49
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46			46

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

	0°
0°	93347
5°	93111
10°	93032
15°	90164
20°	82084
25°	71530
30°	59495
35°	47142
40°	34026
45°	21491
50°	11203
55°	5957
60°	3130
65°	1714
70°	717
75°	790
80°	572
85°	469

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 21491 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.2	8.6
10°-20°	413.9	23.5
20°-30°	505.9	28.7
30°-40°	410.5	23.3
40°-50°	204.6	11.6
50°-60°	57.1	3.2
60°-70°	13.0	0.7
70°-80°	3.4	0.2
80°-90°	0.9	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°	1071.0	60.8
0°-40°	1481.5	84.2
0°-60°	1743.1	99.0
0°-90°	1760.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1760.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1598	
5°	1588	151
15°	1491	414
25°	1110	506
35°	661	410
45°	260	205
55°	58	57
65°	12	13
75°	4	3
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1598.3
2.5°	1597.2
5°	1588.2
7.5°	1583.1
10°	1568.7
12.5°	1539.6
15°	1491.2
17.5°	1415.6
20°	1320.7
22.5°	1218.3
25°	1110.0
27.5°	994.2
30°	882.2
32.5°	771.5
35°	661.2
37.5°	551.0
40°	446.3
42.5°	348.1
45°	260.2
47.5°	181.3
50°	123.3
52.5°	85.0
55°	58.5
57.5°	39.5
60°	26.8
62.5°	18.6
65°	12.4
67.5°	6.4
70°	4.2
72.5°	4.0
75°	3.5
77.5°	2.3
80°	1.7
82.5°	1.1
85°	0.7
87.5°	0.5
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

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— 0°-180°

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(END OF REPORT)