

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: P744704

Luminaire Tested: LD4D20D010-EU4DR6520359050-4LBCSSQMB

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P744704  
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-EU4DR6520359050-4LBCSSQMB  
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 65° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1739.6 lumens  
Efficiency: N/A  
Efficacy: 75.3 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

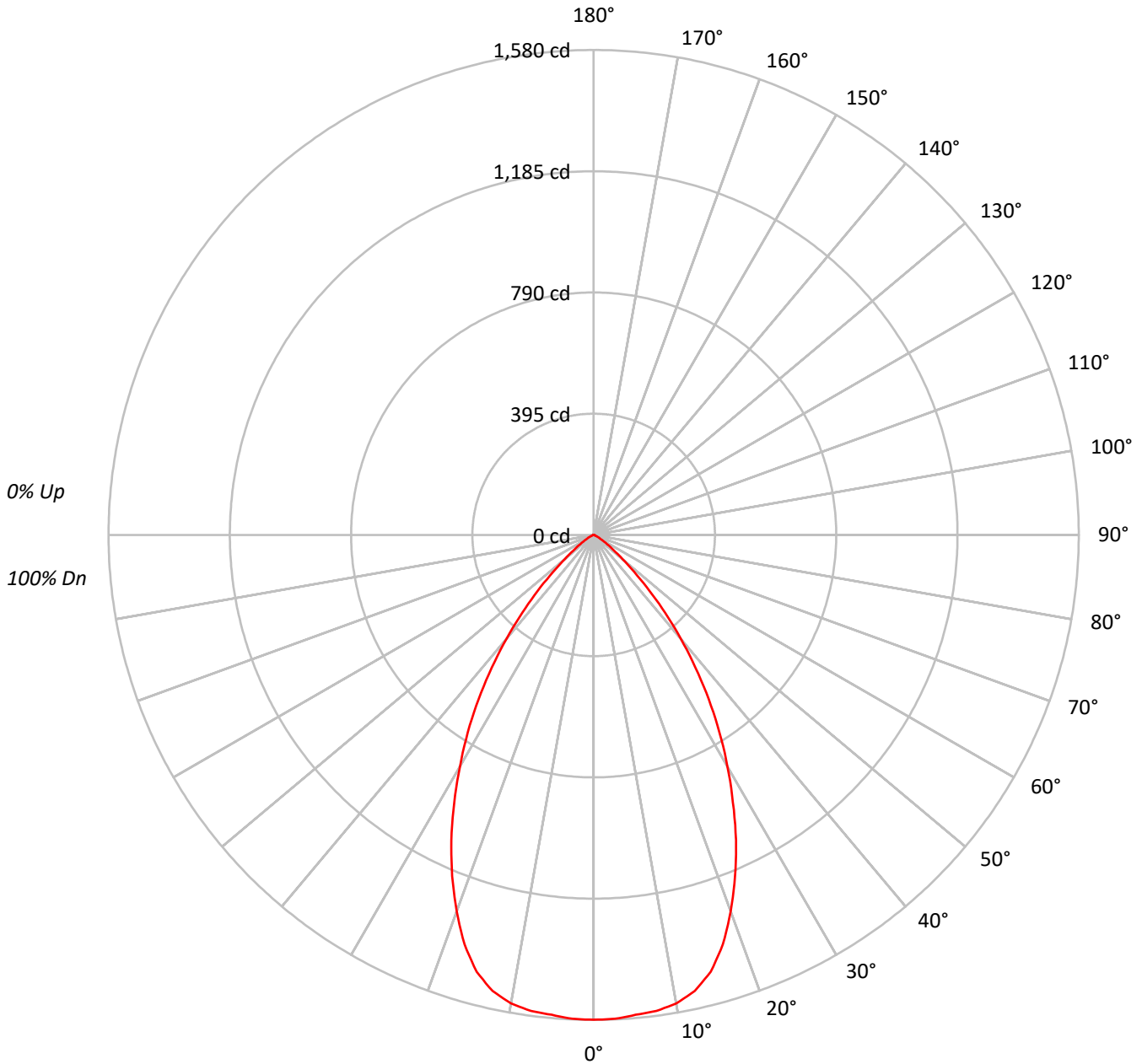


Downlight



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	110	107	105	111	108	105	103	104	102	100		100	99	97		97	95	94	93
2	107	102	97	94	105	100	96	92	97	93	90		94	91	88		91	89	87	85
3	101	94	88	84	99	92	87	83	90	86	82		87	84	81		85	82	80	78
4	95	87	81	76	93	86	80	76	84	79	75		82	77	74		80	76	73	72
5	90	81	74	70	88	80	74	69	78	73	69		76	72	68		75	71	68	66
6	85	75	69	64	83	74	68	64	73	67	63		71	67	63		70	66	62	61
7	80	70	64	59	79	69	63	59	68	63	59		67	62	58		66	61	58	56
8	76	66	59	55	75	65	59	55	64	58	54		63	58	54		62	57	54	52
9	72	61	55	51	71	61	55	51	60	54	51		59	54	50		58	54	50	49
10	68	58	52	47	67	57	51	47	57	51	47		56	51	47		55	50	47	46

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

	0°
0°	92249
5°	92015
10°	91934
15°	89100
20°	81115
25°	70686
30°	58793
35°	46586
40°	33622
45°	21244
50°	11076
55°	5885
60°	3095
65°	1700
70°	717
75°	790
80°	538
85°	469

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 21244 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.4	8.6
10°-20°	409.0	23.5
20°-30°	500.0	28.7
30°-40°	405.7	23.3
40°-50°	202.2	11.6
50°-60°	56.4	3.2
60°-70°	12.8	0.7
70°-80°	3.3	0.2
80°-90°	0.8	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°	1058.4	60.8
0°-40°	1464.0	84.2
0°-60°	1722.6	99.0
0°-90°	1739.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1739.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1580	
5°	1570	149
15°	1474	409
25°	1097	500
35°	653	406
45°	257	202
55°	58	56
65°	12	13
75°	4	3
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1579.5
2.5°	1578.3
5°	1569.5
7.5°	1564.4
10°	1550.2
12.5°	1521.5
15°	1473.6
17.5°	1398.9
20°	1305.1
22.5°	1203.9
25°	1096.9
27.5°	982.5
30°	871.8
32.5°	762.5
35°	653.4
37.5°	544.5
40°	441.0
42.5°	344.0
45°	257.2
47.5°	179.2
50°	121.9
52.5°	84.0
55°	57.8
57.5°	39.0
60°	26.5
62.5°	18.3
65°	12.3
67.5°	6.2
70°	4.2
72.5°	4.0
75°	3.5
77.5°	2.3
80°	1.6
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)