

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: P739120

Luminaire Tested: LD4D02D010-EU4DR300210IC9050-4LBCSSQMB

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P739120  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D02D010-EU4DR300210IC9050-4LBCSSQMB  
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 333.2 lumens  
Efficiency: N/A  
Efficacy: 65.3 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 5.1  
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



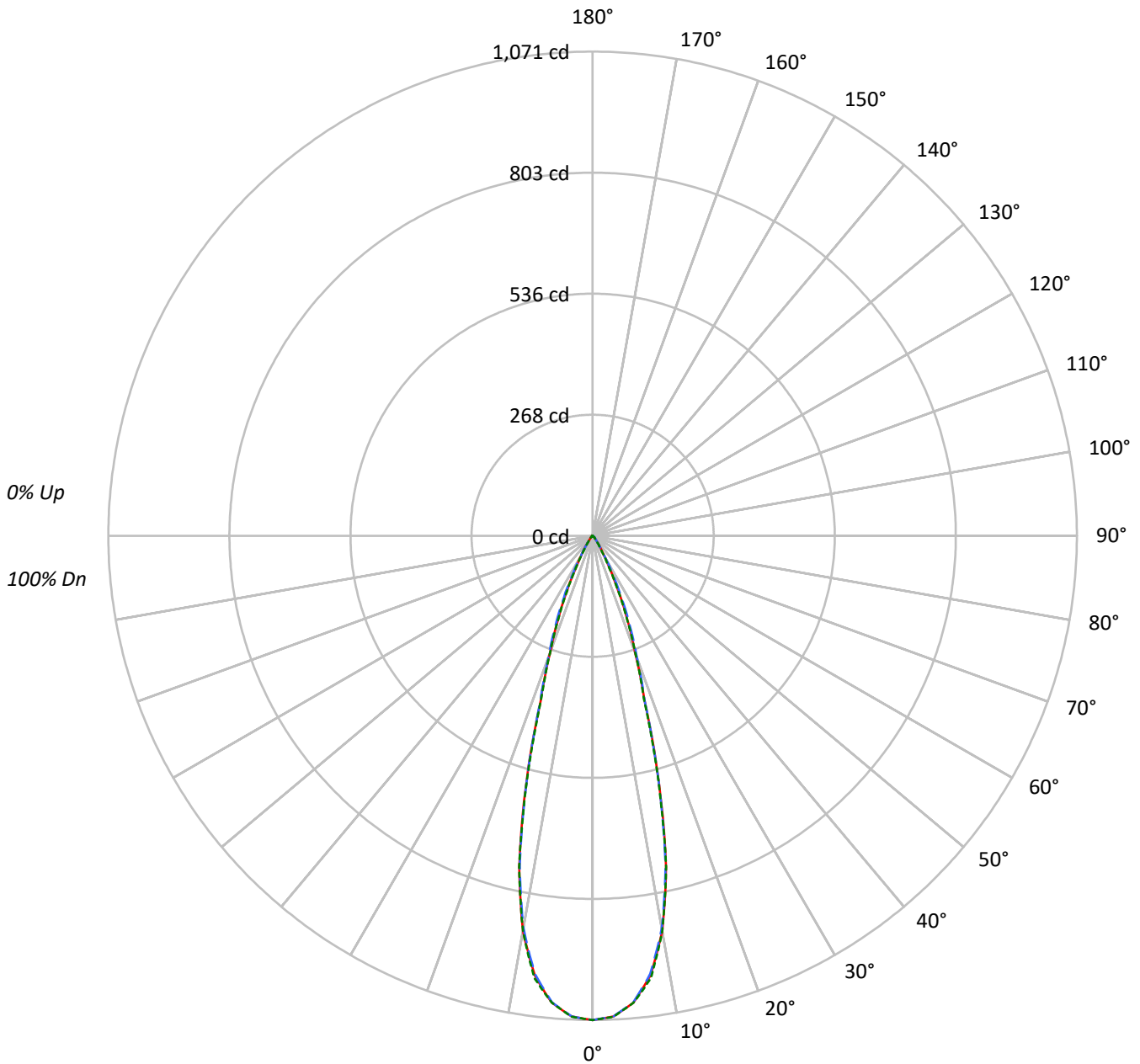
Downlight



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
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																			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

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

	0°	45°	90°
0°	82009	82009	82009
5°	79648	79556	79656
10°	68988	68506	68972
15°	45010	44773	44543
20°	22384	23223	22351
25°	11275	12711	11038
30°	4508	4914	3933
35°	2093	2009	1682
40°	909	999	849
45°	639	790	649
50°	214	572	226
55°	133	240	133
60°	92	107	92
65°	54	54	54
70°	45	22	45
75°	0	30	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 790 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.2	28.3
10°-20°	151.7	45.5
20°-30°	65.6	19.7
30°-40°	14.9	4.5
40°-50°	5.1	1.5
50°-60°	1.3	0.4
60°-70°	0.3	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°	311.5	93.5
0°-40°	326.4	98.0
0°-60°	332.8	99.9
0°-90°	333.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	333.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1071	1071	1071	1071	1071	
5°	1037	1036	1035	1038	1037	94
15°	568	561	565	563	562	152
25°	134	138	150	135	131	64
35°	22	23	22	21	18	15
45°	6	7	7	7	6	4
55°	1	1	2	1	1	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1071.4	1071.4	1071.4	1071.4	1071.4
2.5°	1064.3	1063.5	1063.9	1064.5	1064.7
5°	1036.6	1035.7	1035.4	1037.6	1036.7
7.5°	980.9	979.5	977.3	982.3	986.9
10°	887.6	886.1	881.4	883.7	887.4
12.5°	749.9	744.8	744.7	752.0	751.0
15°	568.0	561.2	565.0	563.2	562.1
17.5°	382.0	379.4	384.4	382.9	376.3
20°	274.8	275.5	285.1	280.2	274.4
22.5°	200.5	203.0	214.4	201.9	197.4
25°	133.5	138.5	150.5	135.0	130.7
27.5°	82.1	84.4	96.6	81.1	78.7
30°	51.0	49.9	55.6	47.8	44.5
32.5°	33.5	32.0	33.9	30.4	27.8
35°	22.4	22.9	21.5	21.3	18.0
37.5°	14.0	16.1	14.2	15.1	11.6
40°	9.1	11.7	10.0	11.1	8.5
42.5°	7.4	9.0	8.3	8.8	7.6
45°	5.9	7.3	7.3	7.3	6.0
47.5°	3.3	4.9	6.2	5.0	3.5
50°	1.8	2.5	4.8	2.6	1.9
52.5°	1.3	1.4	3.3	1.5	1.3
55°	1.0	1.0	1.8	1.0	1.0
57.5°	0.7	0.8	1.0	0.8	0.7
60°	0.6	0.6	0.7	0.6	0.6
62.5°	0.4	0.4	0.5	0.4	0.4
65°	0.3	0.3	0.3	0.3	0.3
67.5°	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.1	0.1	0.1	0.2
72.5°	0.1	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

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

Scaled Data Report



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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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