

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: P744158

Luminaire Tested: LD4D20D010-EU4DR3020359050-4LBCSSQMB

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P744158  
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: LD4D20D010-EU4DR3020359050-4LBCSSQMB  
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: 1762.9 lumens  
Efficiency: N/A  
Efficacy: 76.3 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): 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

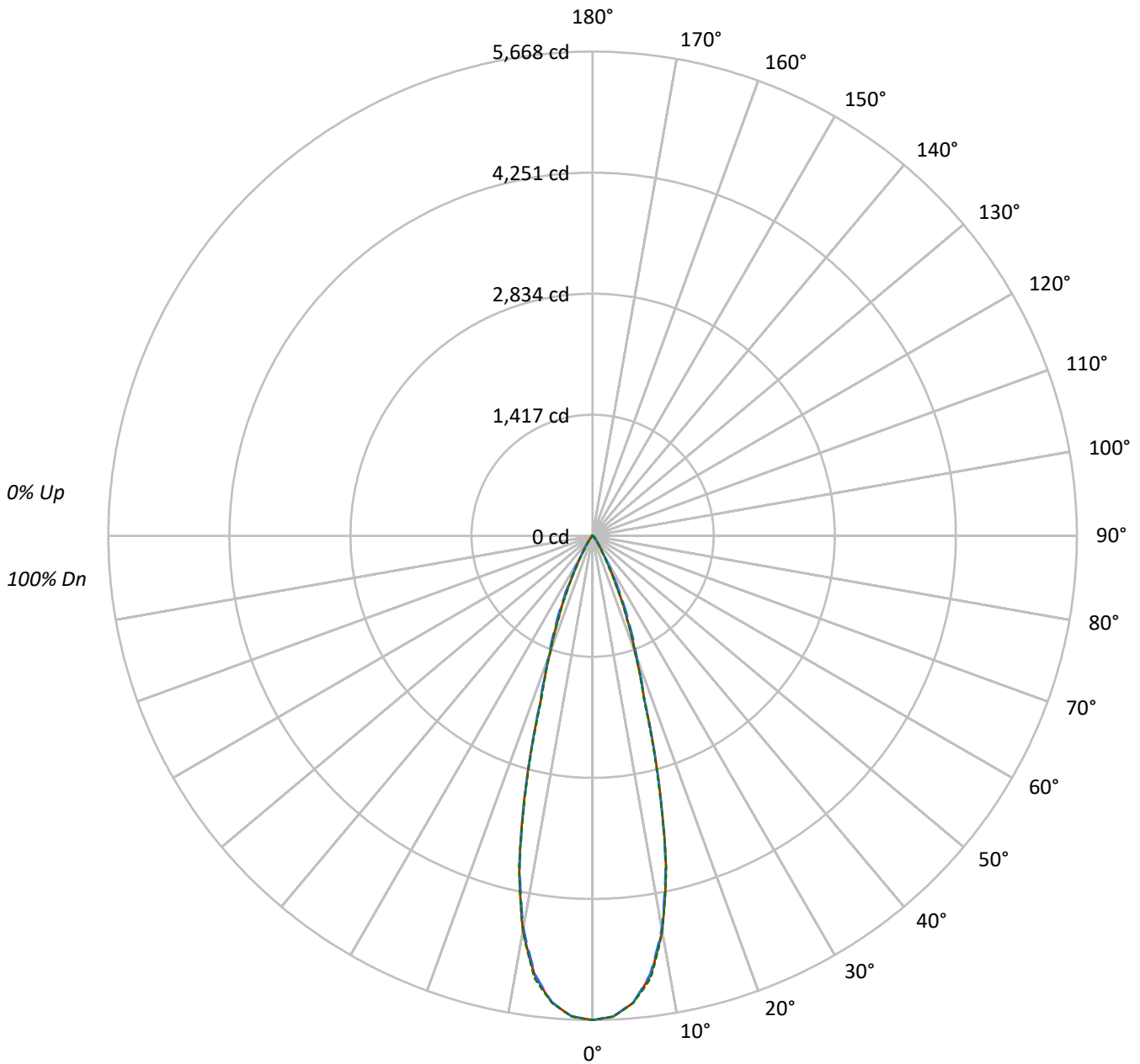


Downlight



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### Luminous Intensity Polar Plot





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

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

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

	0°	45°	90°
0°	433886	433886	433886
5°	421429	420937	421452
10°	365024	362443	364938
15°	238159	236883	235686
20°	118429	122868	118266
25°	59651	67269	58427
30°	23890	26020	20806
35°	11073	10615	8896
40°	4776	5316	4506
45°	3377	4189	3410
50°	1155	3048	1227
55°	667	1268	707
60°	459	551	459
65°	308	308	308
70°	201	134	201
75°	0	89	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 4189 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	498.5	28.3
10°-20°	802.8	45.5
20°-30°	346.9	19.7
30°-40°	79.1	4.5
40°-50°	27.1	1.5
50°-60°	6.6	0.4
60°-70°	1.7	0.1
70°-80°	0.2	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°	1648.1	93.5
0°-40°	1727.2	98.0
0°-60°	1761.0	99.9
0°-90°	1762.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1762.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5668	5668	5668	5668	5668	
5°	5485	5480	5478	5490	5485	499
15°	3005	2969	2989	2980	2974	805
25°	706	733	796	714	692	338
35°	118	121	114	113	95	80
45°	31	39	39	39	32	22
55°	5	5	10	6	5	5
65°	2	2	2	2	2	2
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°	5668.5	5668.5	5668.5	5668.5	5668.5
2.5°	5630.9	5627.0	5629.2	5632.0	5633.1
5°	5484.8	5479.5	5478.4	5489.8	5485.1
7.5°	5190.1	5182.6	5171.2	5197.1	5221.2
10°	4696.4	4688.0	4663.2	4675.5	4695.3
12.5°	3967.5	3940.5	3940.0	3978.9	3973.6
15°	3005.4	2969.2	2989.3	2979.5	2974.2
17.5°	2021.0	2007.1	2033.9	2025.8	1991.0
20°	1453.9	1457.5	1508.4	1482.8	1451.9
22.5°	1060.9	1074.0	1134.4	1068.4	1044.2
25°	706.3	733.0	796.5	714.4	691.8
27.5°	434.4	446.7	511.0	428.9	416.6
30°	270.3	264.1	294.4	252.7	235.4
32.5°	177.3	169.5	179.2	160.9	147.0
35°	118.5	121.1	113.6	112.7	95.2
37.5°	74.0	85.1	75.1	80.2	61.2
40°	47.8	61.8	53.2	58.7	45.1
42.5°	39.2	47.6	43.7	46.5	40.0
45°	31.2	38.7	38.7	38.7	31.5
47.5°	17.2	25.9	33.1	26.4	18.4
50°	9.7	13.1	25.6	13.6	10.3
52.5°	6.7	7.5	17.5	7.8	6.9
55°	5.0	5.3	9.5	5.6	5.3
57.5°	3.9	4.2	5.0	4.2	3.9
60°	3.0	3.0	3.6	3.3	3.0
62.5°	2.2	2.2	2.5	2.2	2.2
65°	1.7	1.7	1.7	1.7	1.7
67.5°	0.9	1.1	1.1	1.1	1.1
70°	0.9	0.6	0.6	0.6	0.9
72.5°	0.6	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	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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(END OF REPORT)