

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: P743166

Luminaire Tested: LD4D15D010-EU4DR300215IC9050-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P743166
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: LD4D15D010-EU4DR300215IC9050-4LBCSSQMB
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: 1283.8 lumens
Efficiency: N/A
Efficacy: 81.3 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): 15.8
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



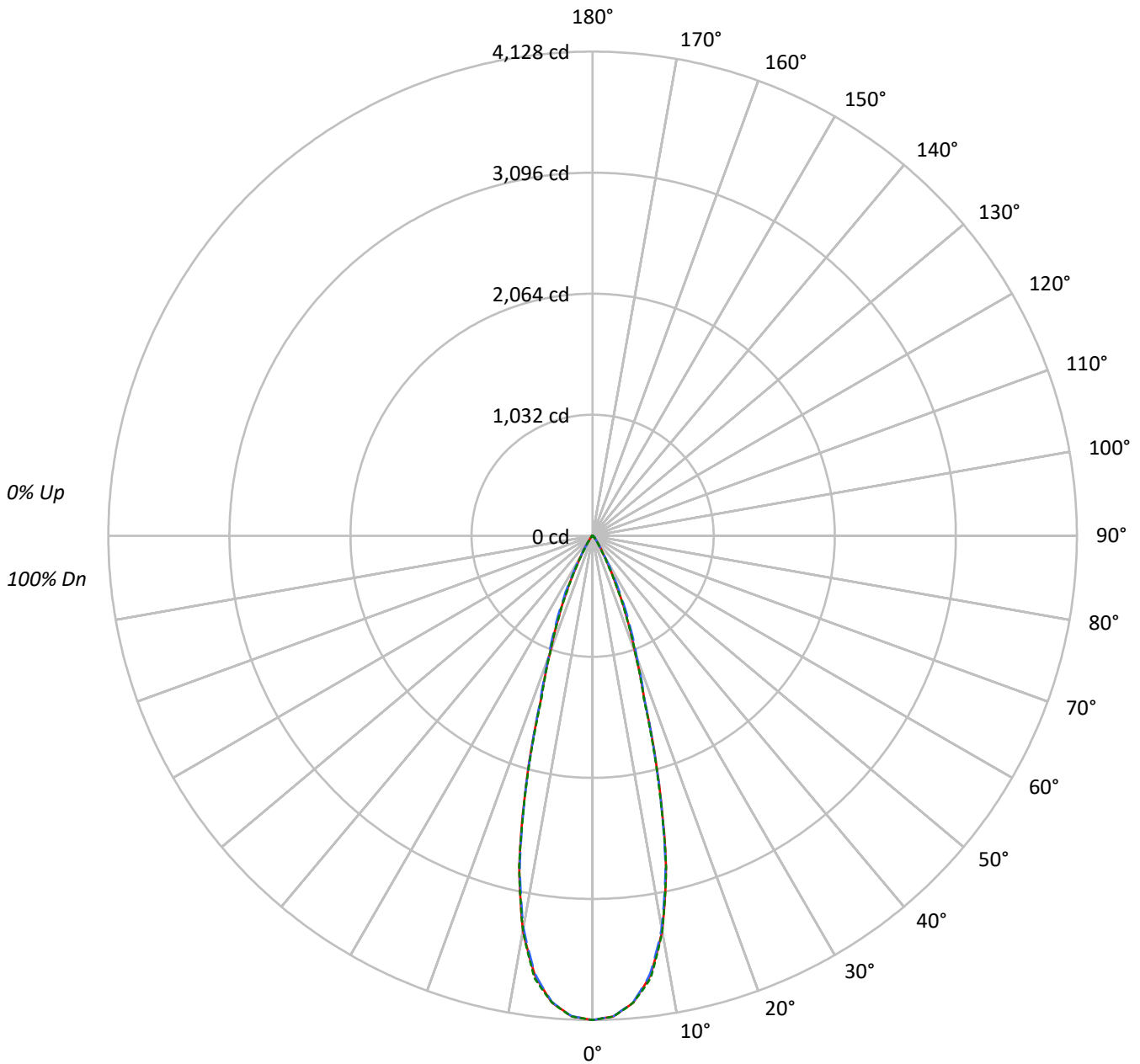
Downlight



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	315979	315979	315979
5°	306905	306544	306921
10°	265825	263951	265762
15°	173440	172505	171642
20°	86245	89479	86131
25°	43444	48993	42558
30°	17394	18959	15158
35°	8064	7728	6476
40°	3477	3867	3277
45°	2457	3053	2479
50°	845	2215	893
55°	494	921	507
60°	337	398	337
65°	217	217	217
70°	134	90	134
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 3053 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.0	28.3
10°-20°	584.6	45.5
20°-30°	252.6	19.7
30°-40°	57.6	4.5
40°-50°	19.8	1.5
50°-60°	4.8	0.4
60°-70°	1.2	0.1
70°-80°	0.1	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°	1200.2	93.5
0°-40°	1257.8	98.0
0°-60°	1282.4	99.9
0°-90°	1283.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1283.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4128	4128	4128	4128	4128	
5°	3994	3990	3990	3998	3994	363
15°	2189	2162	2177	2170	2166	586
25°	514	534	580	520	504	246
35°	86	88	83	82	69	59
45°	23	28	28	28	23	16
55°	4	4	7	4	4	4
65°	1	1	1	1	1	1
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°	4128.1	4128.1	4128.1	4128.1	4128.1
2.5°	4100.7	4097.9	4099.5	4101.5	4102.3
5°	3994.3	3990.4	3989.6	3997.9	3994.5
7.5°	3779.7	3774.2	3765.9	3784.7	3802.4
10°	3420.1	3414.0	3396.0	3404.9	3419.3
12.5°	2889.3	2869.7	2869.3	2897.6	2893.8
15°	2188.7	2162.3	2176.9	2169.8	2166.0
17.5°	1471.8	1461.7	1481.1	1475.3	1449.9
20°	1058.8	1061.4	1098.5	1079.8	1057.4
22.5°	772.6	782.1	826.1	778.1	760.4
25°	514.4	533.8	580.1	520.2	503.9
27.5°	316.4	325.3	372.1	312.3	303.4
30°	196.8	192.3	214.5	184.0	171.5
32.5°	129.1	123.4	130.5	117.2	107.0
35°	86.3	88.2	82.7	82.1	69.3
37.5°	53.9	62.0	54.7	58.4	44.6
40°	34.8	45.0	38.7	42.7	32.8
42.5°	28.6	34.7	31.8	33.9	29.2
45°	22.7	28.2	28.2	28.2	22.9
47.5°	12.5	18.9	24.1	19.3	13.3
50°	7.1	9.5	18.6	9.9	7.5
52.5°	4.9	5.5	12.8	5.7	5.0
55°	3.7	3.8	6.9	4.1	3.8
57.5°	2.9	3.0	3.7	3.0	2.9
60°	2.2	2.2	2.6	2.4	2.2
62.5°	1.6	1.6	1.8	1.6	1.6
65°	1.2	1.2	1.2	1.2	1.2
67.5°	0.6	0.8	0.8	0.8	0.8
70°	0.6	0.4	0.4	0.4	0.6
72.5°	0.4	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	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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