

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



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: P742162

Luminaire Tested: LD4D10D010-EU4DR300210IC9050-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P742162
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: LD4D10D010-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: 955.4 lumens
Efficiency: N/A
Efficacy: 81.7 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): 11.7
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



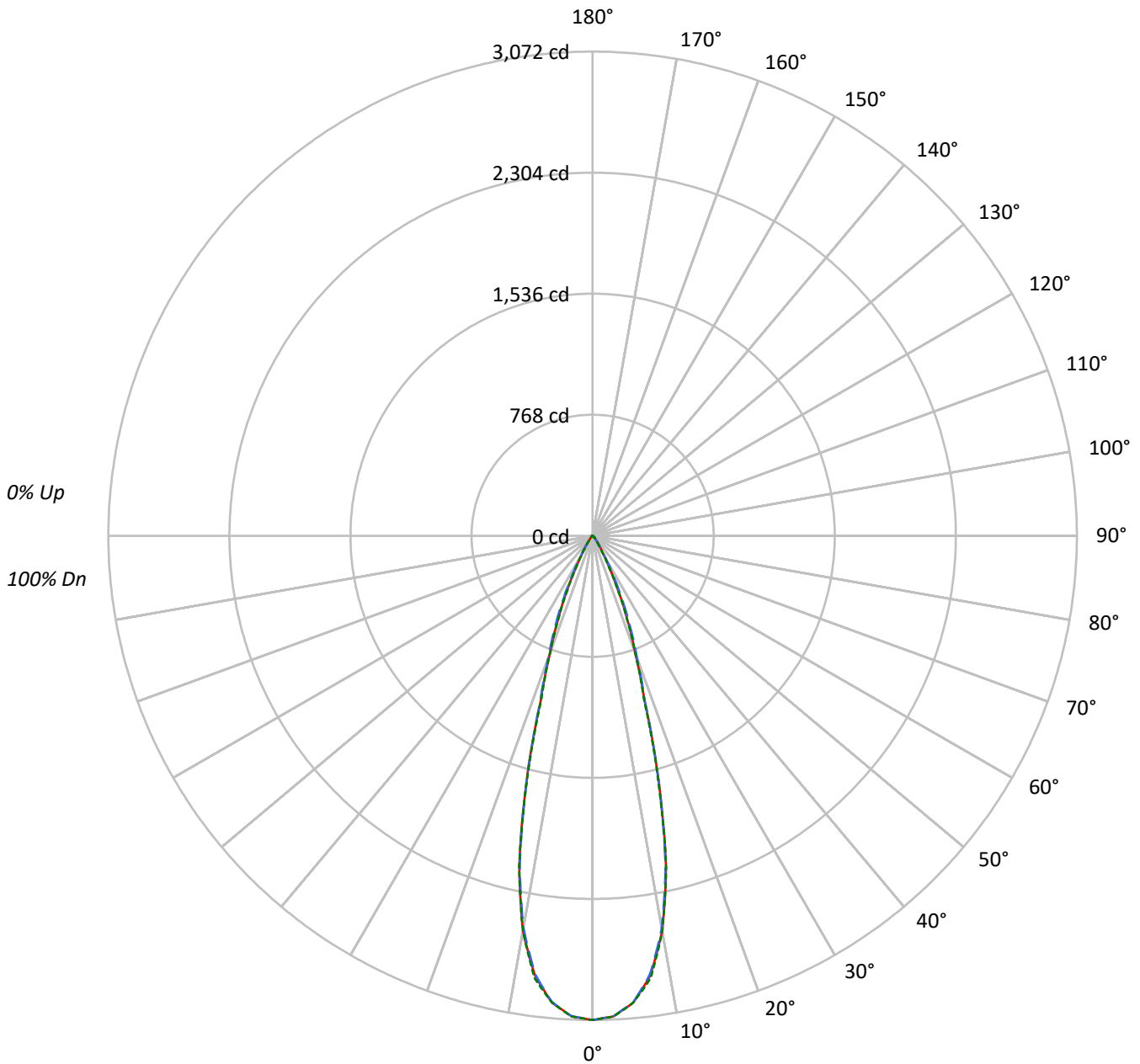
Downlight



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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°	235149	235149	235149
5°	228402	228133	228410
10°	197831	196432	197777
15°	129072	128382	127733
20°	64179	66590	64098
25°	32330	36460	31663
30°	12940	14106	11278
35°	5999	5747	4822
40°	2598	2878	2438
45°	1829	2273	1840
50°	631	1655	667
55°	360	694	387
60°	260	291	260
65°	163	163	163
70°	112	67	112
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 2273 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.1	28.3
10°-20°	435.1	45.5
20°-30°	188.0	19.7
30°-40°	42.8	4.5
40°-50°	14.7	1.5
50°-60°	3.6	0.4
60°-70°	0.9	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°	893.2	93.5
0°-40°	936.1	98.0
0°-60°	954.4	99.9
0°-90°	955.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	955.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3072	3072	3072	3072	3072	
5°	2973	2970	2969	2975	2973	270
15°	1629	1609	1620	1615	1612	436
25°	383	397	432	387	375	183
35°	64	66	62	61	52	44
45°	17	21	21	21	17	12
55°	3	3	5	3	3	3
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°	3072.1	3072.1	3072.1	3072.1	3072.1
2.5°	3051.8	3049.6	3050.8	3052.3	3053.0
5°	2972.6	2969.7	2969.1	2975.3	2972.7
7.5°	2812.8	2808.8	2802.6	2816.6	2829.7
10°	2545.3	2540.8	2527.3	2533.9	2544.6
12.5°	2150.2	2135.6	2135.3	2156.4	2153.6
15°	1628.8	1609.2	1620.1	1614.8	1611.9
17.5°	1095.3	1087.8	1102.3	1097.9	1079.0
20°	787.9	789.9	817.5	803.6	786.9
22.5°	575.0	582.1	614.8	579.0	565.9
25°	382.8	397.3	431.7	387.2	374.9
27.5°	235.4	242.1	276.9	232.4	225.8
30°	146.4	143.1	159.6	136.9	127.6
32.5°	96.1	91.8	97.1	87.2	79.6
35°	64.2	65.6	61.5	61.1	51.6
37.5°	40.1	46.2	40.7	43.4	33.2
40°	26.0	33.5	28.8	31.8	24.4
42.5°	21.3	25.8	23.7	25.2	21.7
45°	16.9	21.0	21.0	21.0	17.0
47.5°	9.3	14.0	17.9	14.3	10.0
50°	5.3	7.1	13.9	7.4	5.6
52.5°	3.6	4.1	9.5	4.2	3.8
55°	2.7	2.9	5.2	3.0	2.9
57.5°	2.1	2.2	2.7	2.2	2.1
60°	1.7	1.7	1.9	1.8	1.7
62.5°	1.2	1.2	1.4	1.2	1.2
65°	0.9	0.9	0.9	0.9	0.9
67.5°	0.5	0.6	0.6	0.6	0.6
70°	0.5	0.3	0.3	0.3	0.5
72.5°	0.3	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

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Scaled Data Report





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

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