

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: P743885

Luminaire Tested: LD4D20D010-EU4DR1515309030-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743885
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D20D010-EU4DR1515309030-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1705.3 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')
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

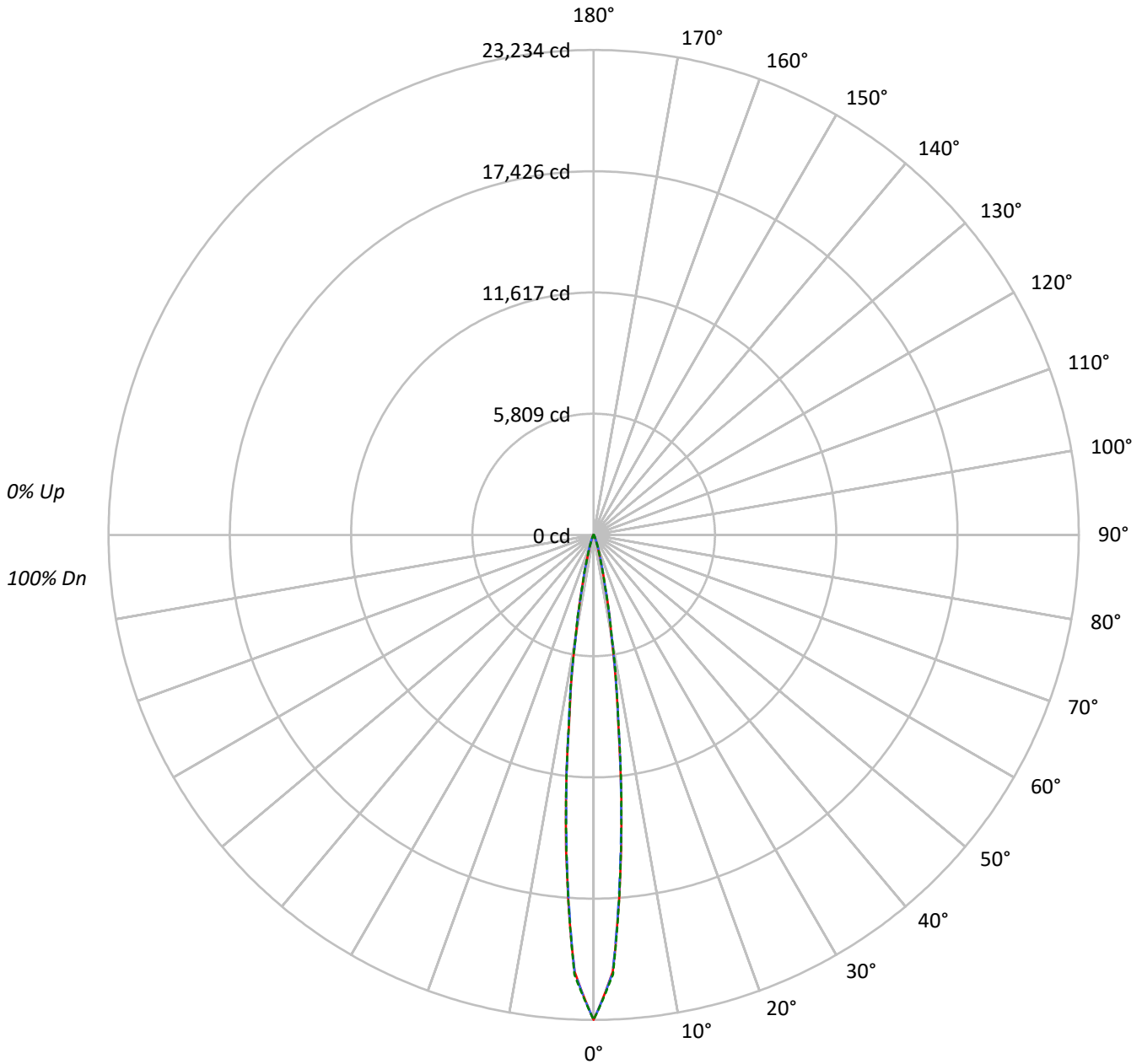


Downlight



TEST NUMBER: P743885
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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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96																			
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94																			
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93																			
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92																			
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90																			
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89																			
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88																			
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	87	87																			
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2614232	2614232	2614232
5°	1536243	1516354	1528346
10°	458495	461714	468777
15°	114043	116267	112679
20°	34120	39512	34848
25°	12028	15323	12184
30°	4418	5818	4493
35°	2215	2498	2142
40°	1399	1534	1399
45°	1036	1099	1036
50°	821	821	821
55°	682	682	682
60°	555	555	555
65°	421	421	421
70°	358	358	358
75°	227	227	295
80°	158	158	158
85°	83	83	83

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1099 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1106.0	64.9
10°-20°	454.9	26.7
20°-30°	90.4	5.3
30°-40°	22.6	1.3
40°-50°	11.9	0.7
50°-60°	8.8	0.5
60°-70°	6.2	0.4
70°-80°	3.6	0.2
80°-90°	1.1	0.1
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°	1651.2	96.8
0°-40°	1673.8	98.2
0°-60°	1694.4	99.4
0°-90°	1705.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1705.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23234	23234	23234	23234	23234	
5°	15116	14961	14920	15024	15038	1104
15°	1313	1338	1339	1315	1297	450
25°	154	175	197	174	156	81
35°	30	32	34	32	30	21
45°	15	15	16	15	15	12
55°	10	10	10	10	10	9
65°	6	6	6	6	6	6
75°	3	3	3	3	4	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	23233.5	23233.5	23233.5	23233.5	23233.5
2.5°	20957.6	20975.3	20982.1	21002.8	21079.5
5°	15116.2	14960.8	14920.5	15023.8	15038.5
7.5°	8954.3	8985.7	9100.8	9126.4	9033.9
10°	4913.8	4954.2	4948.3	4983.7	5024.0
12.5°	2513.0	2481.5	2471.7	2512.0	2455.9
15°	1313.0	1337.6	1338.6	1315.0	1297.3
17.5°	706.2	734.7	781.9	743.6	684.6
20°	417.0	442.6	482.9	451.5	425.9
22.5°	257.7	278.3	306.9	282.3	261.6
25°	154.4	175.1	196.7	174.1	156.4
27.5°	91.5	109.2	122.9	108.2	90.5
30°	59.0	68.8	77.7	67.9	60.0
32.5°	41.3	45.2	49.2	45.2	41.3
35°	30.5	32.5	34.4	32.5	29.5
37.5°	23.6	25.6	26.6	24.6	22.6
40°	19.7	20.7	21.6	20.7	19.7
42.5°	16.7	17.7	17.7	17.7	16.7
45°	14.8	14.8	15.7	14.8	14.8
47.5°	12.8	12.8	13.8	12.8	12.8
50°	11.8	11.8	11.8	11.8	11.8
52.5°	10.8	10.8	10.8	10.8	10.8
55°	9.8	9.8	9.8	9.8	9.8
57.5°	8.9	8.9	8.9	8.9	8.9
60°	7.9	7.9	7.9	7.9	7.9
62.5°	6.9	6.9	6.9	6.9	6.9
65°	5.9	5.9	5.9	5.9	5.9
67.5°	5.9	5.9	5.9	5.9	5.9
70°	4.9	4.9	4.9	4.9	4.9
72.5°	3.9	3.9	3.9	3.9	3.9
75°	3.0	3.0	3.0	3.0	3.9
77.5°	3.0	3.0	3.0	3.0	3.0
80°	2.0	2.0	2.0	2.0	2.0
82.5°	2.0	2.0	2.0	2.0	2.0
85°	1.0	1.0	1.0	1.0	1.0
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



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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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(END OF REPORT)