

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: P743872

Luminaire Tested: LD4D20D010-EU4DR1515309027-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743872
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-EU4DR1515309027-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1651.5 lumens
Efficiency: N/A
Efficacy: 71.5 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

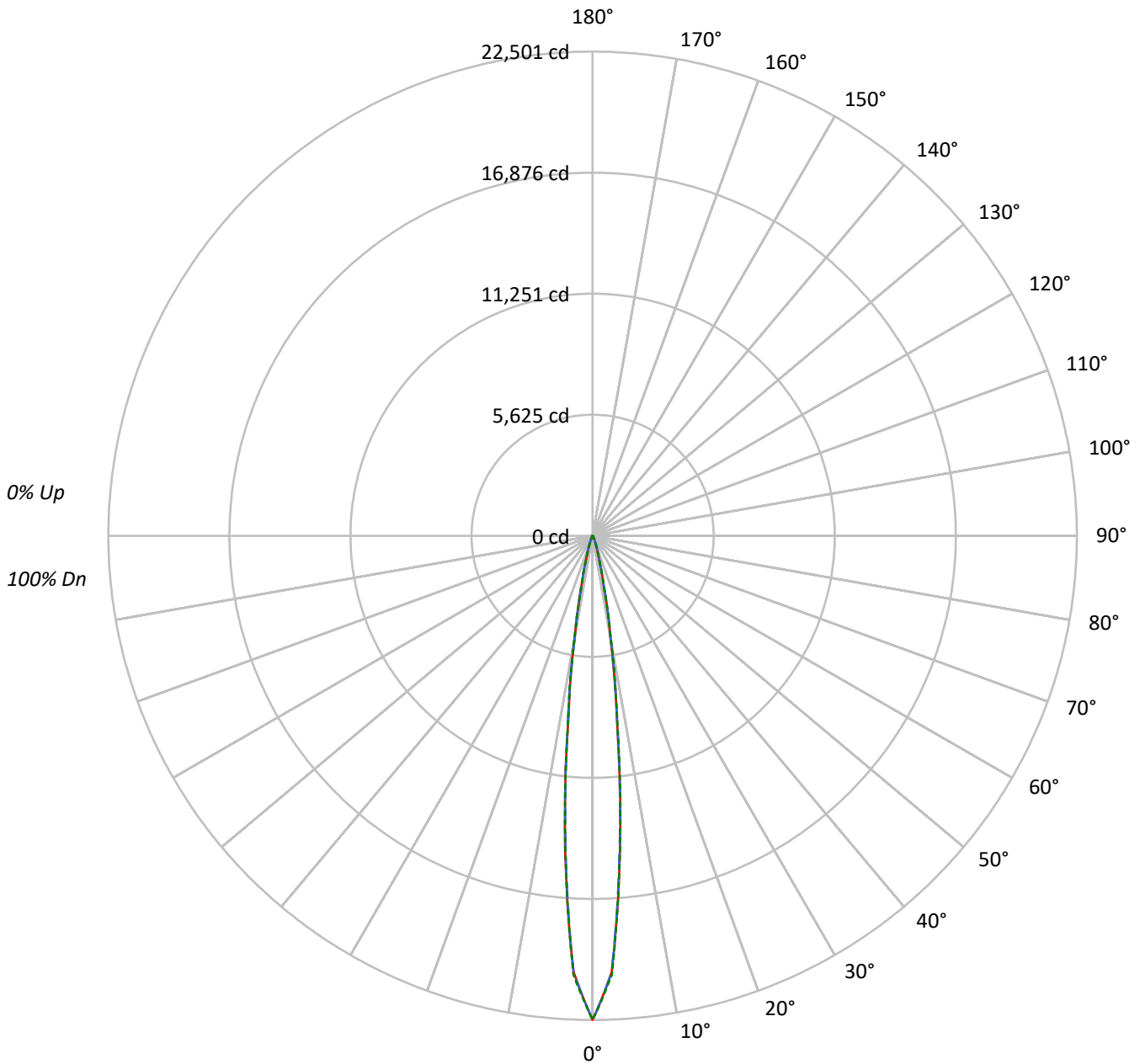


Downlight



TEST NUMBER: P743872
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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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98						98													
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96						96													
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94						94													
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93						93													
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92						92													
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90						90													
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89						89													
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88						88													
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	87	87						87													
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86						86													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2531800	2531800	2531800
5°	1487807	1468538	1480154
10°	444041	447149	453997
15°	110447	112601	109127
20°	33048	38269	33752
25°	11646	14840	11802
30°	4283	5639	4351
35°	2142	2418	2077
40°	1356	1491	1356
45°	1001	1064	1001
50°	793	793	793
55°	661	661	661
60°	534	534	534
65°	407	407	407
70°	351	351	351
75°	219	219	287
80°	150	150	150
85°	83	83	83

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1064 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1071.1	64.9
10°-20°	440.6	26.7
20°-30°	87.5	5.3
30°-40°	21.8	1.3
40°-50°	11.5	0.7
50°-60°	8.5	0.5
60°-70°	6.0	0.4
70°-80°	3.4	0.2
80°-90°	1.0	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°	1599.2	96.8
0°-40°	1621.0	98.2
0°-60°	1641.0	99.4
0°-90°	1651.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1651.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22501	22501	22501	22501	22501	
5°	14640	14489	14450	14550	14564	1069
15°	1272	1296	1296	1274	1256	436
25°	150	170	190	169	152	79
35°	30	31	33	31	29	20
45°	14	14	15	14	14	11
55°	10	10	10	10	10	9
65°	6	6	6	6	6	6
75°	3	3	3	3	4	3
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°	22500.9	22500.9	22500.9	22500.9	22500.9
2.5°	20296.7	20313.9	20320.5	20340.5	20414.8
5°	14639.6	14489.1	14450.0	14550.1	14564.3
7.5°	8671.9	8702.4	8813.9	8838.6	8749.1
10°	4758.9	4797.9	4792.2	4826.5	4865.6
12.5°	2433.7	2403.3	2393.7	2432.8	2378.5
15°	1271.6	1295.5	1296.4	1273.5	1256.4
17.5°	683.9	711.5	757.3	720.1	663.0
20°	403.9	428.6	467.7	437.2	412.5
22.5°	249.6	269.6	297.2	273.4	253.4
25°	149.5	169.6	190.5	168.6	151.5
27.5°	88.6	105.7	119.1	104.8	87.6
30°	57.2	66.7	75.3	65.7	58.1
32.5°	40.0	43.8	47.6	43.8	40.0
35°	29.5	31.4	33.3	31.4	28.6
37.5°	22.9	24.8	25.7	23.8	21.9
40°	19.1	20.0	21.0	20.0	19.1
42.5°	16.2	17.1	17.1	17.1	16.2
45°	14.3	14.3	15.2	14.3	14.3
47.5°	12.4	12.4	13.3	12.4	12.4
50°	11.4	11.4	11.4	11.4	11.4
52.5°	10.5	10.5	10.5	10.5	10.5
55°	9.5	9.5	9.5	9.5	9.5
57.5°	8.6	8.6	8.6	8.6	8.6
60°	7.6	7.6	7.6	7.6	7.6
62.5°	6.7	6.7	6.7	6.7	6.7
65°	5.7	5.7	5.7	5.7	5.7
67.5°	5.7	5.7	5.7	5.7	5.7
70°	4.8	4.8	4.8	4.8	4.8
72.5°	3.8	3.8	3.8	3.8	3.8
75°	2.9	2.9	2.9	2.9	3.8
77.5°	2.9	2.9	2.9	2.9	2.9
80°	1.9	1.9	1.9	1.9	1.9
82.5°	1.9	1.9	1.9	1.9	1.9
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





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

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