

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: P743884

Luminaire Tested: LD4D20D010-EU4DR1515309027-4LBSQW1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743884
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-EU4DR1515309027-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1638.2 lumens
Efficiency: N/A
Efficacy: 70.9 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



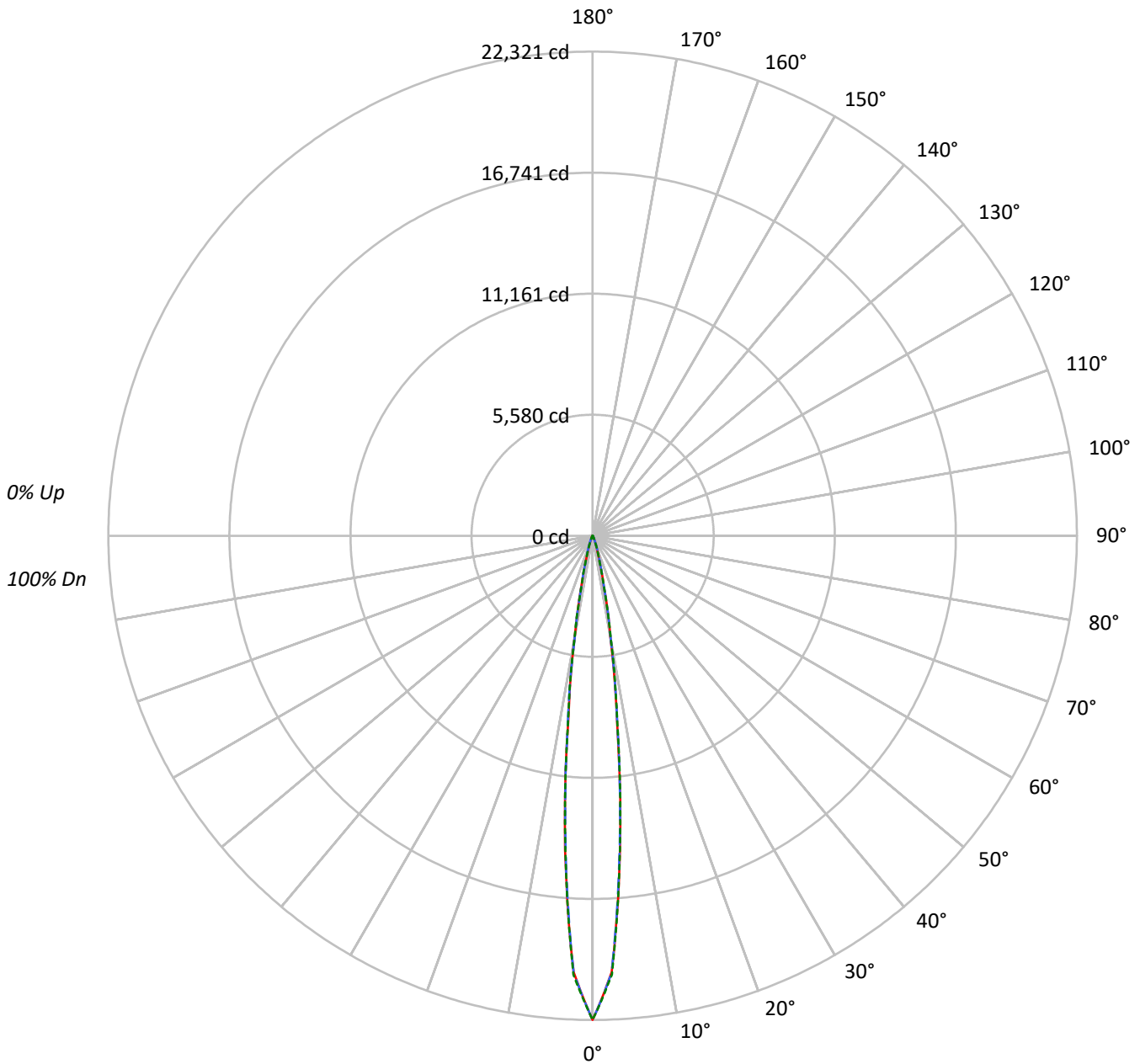
Downlight



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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					70					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	88	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°	2511524	2511524	2511524
5°	1475885	1456779	1468304
10°	440486	443566	450358
15°	109570	111698	108250
20°	32778	37966	33474
25°	11560	14723	11701
30°	4246	5586	4313
35°	2128	2404	2055
40°	1342	1477	1342
45°	994	1057	994
50°	786	786	786
55°	654	654	654
60°	534	534	534
65°	407	407	407
70°	344	344	344
75°	212	212	287
80°	150	150	150
85°	75	75	75

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1057 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1062.5	64.9
10°-20°	437.0	26.7
20°-30°	86.8	5.3
30°-40°	21.7	1.3
40°-50°	11.4	0.7
50°-60°	8.4	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°	1586.3	96.8
0°-40°	1608.0	98.2
0°-60°	1627.8	99.4
0°-90°	1638.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1638.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22321	22321	22321	22321	22321	
5°	14522	14373	14334	14434	14448	1061
15°	1262	1285	1286	1263	1246	432
25°	148	168	189	167	150	78
35°	29	31	33	31	28	20
45°	14	14	15	14	14	11
55°	9	9	9	9	9	8
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°	22320.7	22320.7	22320.7	22320.7	22320.7
2.5°	20134.2	20151.2	20157.8	20177.6	20251.3
5°	14522.3	14373.0	14334.3	14433.5	14447.7
7.5°	8602.5	8632.7	8743.3	8767.8	8679.0
10°	4720.8	4759.5	4753.8	4787.9	4826.6
12.5°	2414.2	2384.0	2374.6	2413.3	2359.4
15°	1261.5	1285.1	1286.0	1263.3	1246.3
17.5°	678.4	705.8	751.2	714.4	657.7
20°	400.6	425.2	464.0	433.7	409.1
22.5°	247.6	267.4	294.8	271.2	251.3
25°	148.4	168.2	189.0	167.2	150.2
27.5°	87.9	104.9	118.1	103.9	86.9
30°	56.7	66.1	74.6	65.2	57.6
32.5°	39.7	43.5	47.2	43.5	39.7
35°	29.3	31.2	33.1	31.2	28.3
37.5°	22.7	24.6	25.5	23.6	21.7
40°	18.9	19.8	20.8	19.8	18.9
42.5°	16.1	17.0	17.0	17.0	16.1
45°	14.2	14.2	15.1	14.2	14.2
47.5°	12.3	12.3	13.2	12.3	12.3
50°	11.3	11.3	11.3	11.3	11.3
52.5°	10.4	10.4	10.4	10.4	10.4
55°	9.4	9.4	9.4	9.4	9.4
57.5°	8.5	8.5	8.5	8.5	8.5
60°	7.6	7.6	7.6	7.6	7.6
62.5°	6.6	6.6	6.6	6.6	6.6
65°	5.7	5.7	5.7	5.7	5.7
67.5°	5.7	5.7	5.7	5.7	5.7
70°	4.7	4.7	4.7	4.7	4.7
72.5°	3.8	3.8	3.8	3.8	3.8
75°	2.8	2.8	2.8	2.8	3.8
77.5°	2.8	2.8	2.8	2.8	2.8
80°	1.9	1.9	1.9	1.9	1.9
82.5°	1.9	1.9	1.9	1.9	1.9
85°	0.9	0.9	0.9	0.9	0.9
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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