

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: P743871

Luminaire Tested: LD4D20D010-EU4DR1515309024-4LBSQW1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743871
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-EU4DR1515309024-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1475.9 lumens
Efficiency: N/A
Efficacy: 63.9 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



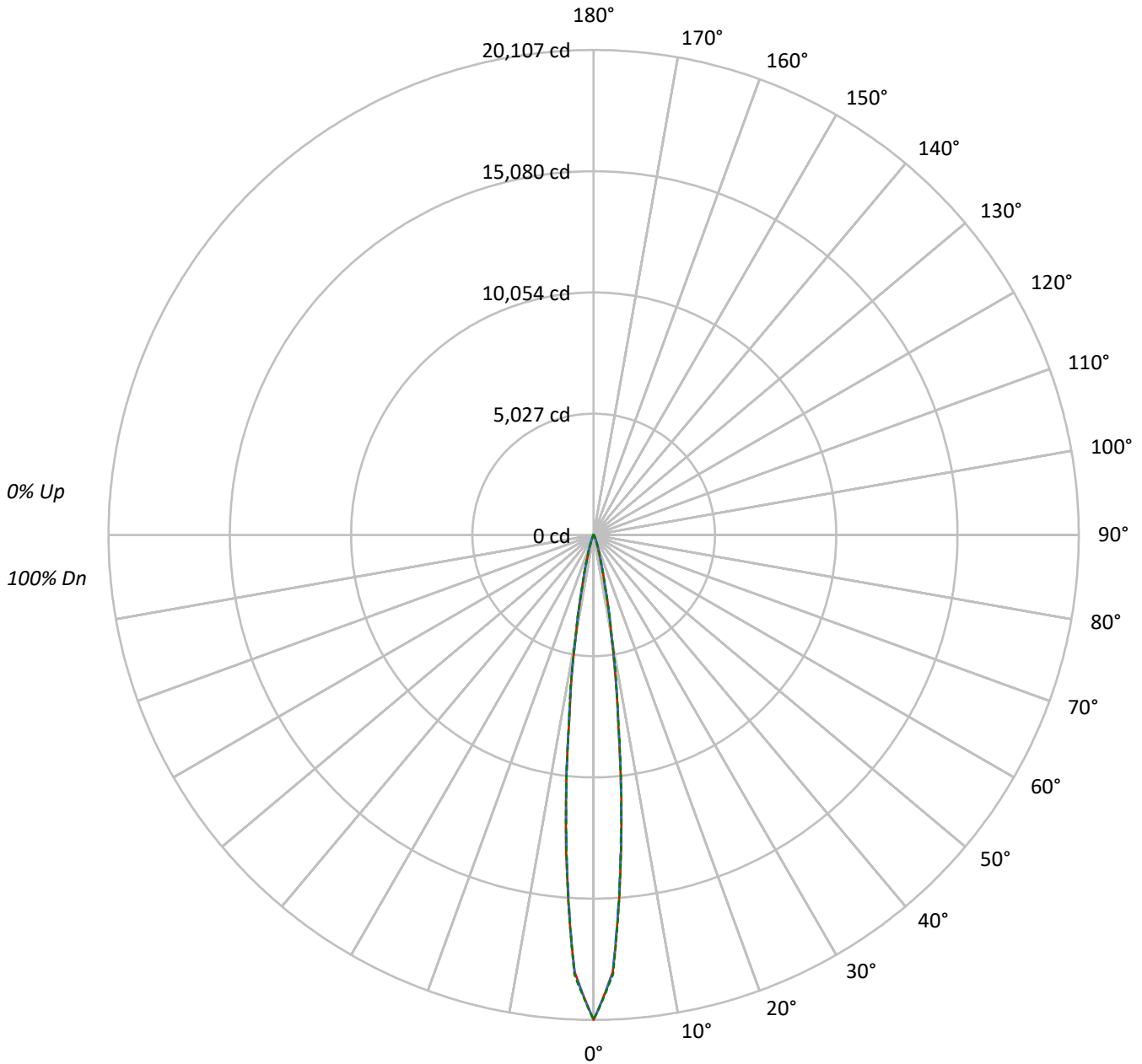
Downlight



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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									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°	2262472	2262472	2262472
5°	1329540	1312324	1322700
10°	396809	399580	405701
15°	98704	100624	97514
20°	29530	34194	30160
25°	10408	13259	10540
30°	3826	5032	3886
35°	1917	2164	1852
40°	1207	1328	1207
45°	896	952	896
50°	709	709	709
55°	592	592	592
60°	477	477	477
65°	364	364	364
70°	314	314	314
75°	197	197	257
80°	134	134	134
85°	75	75	75

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 952 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	957.1	64.9
10°-20°	393.7	26.7
20°-30°	78.2	5.3
30°-40°	19.5	1.3
40°-50°	10.3	0.7
50°-60°	7.6	0.5
60°-70°	5.4	0.4
70°-80°	3.1	0.2
80°-90°	0.9	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°	1429.0	96.8
0°-40°	1448.6	98.2
0°-60°	1466.5	99.4
0°-90°	1475.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1475.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20107	20107	20107	20107	20107	
5°	13082	12948	12913	13002	13015	955
15°	1136	1158	1158	1138	1123	390
25°	134	152	170	151	135	70
35°	26	28	30	28	26	18
45°	13	13	14	13	13	10
55°	8	8	8	8	8	8
65°	5	5	5	5	5	5
75°	3	3	3	3	3	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°	20107.3	20107.3	20107.3	20107.3	20107.3
2.5°	18137.6	18152.9	18158.9	18176.8	18243.2
5°	13082.3	12947.8	12912.9	13002.3	13015.0
7.5°	7749.4	7776.7	7876.3	7898.4	7818.4
10°	4252.7	4287.6	4282.4	4313.1	4348.0
12.5°	2174.8	2147.6	2139.1	2174.0	2125.5
15°	1136.4	1157.6	1158.5	1138.1	1122.7
17.5°	611.2	635.9	676.7	643.5	592.4
20°	360.9	383.0	417.9	390.7	368.6
22.5°	223.0	240.9	265.6	244.3	226.4
25°	133.6	151.5	170.2	150.7	135.3
27.5°	79.2	94.5	106.4	93.6	78.3
30°	51.1	59.6	67.2	58.7	51.9
32.5°	35.8	39.2	42.6	39.2	35.8
35°	26.4	28.1	29.8	28.1	25.5
37.5°	20.4	22.1	23.0	21.3	19.6
40°	17.0	17.9	18.7	17.9	17.0
42.5°	14.5	15.3	15.3	15.3	14.5
45°	12.8	12.8	13.6	12.8	12.8
47.5°	11.1	11.1	11.9	11.1	11.1
50°	10.2	10.2	10.2	10.2	10.2
52.5°	9.4	9.4	9.4	9.4	9.4
55°	8.5	8.5	8.5	8.5	8.5
57.5°	7.7	7.7	7.7	7.7	7.7
60°	6.8	6.8	6.8	6.8	6.8
62.5°	6.0	6.0	6.0	6.0	6.0
65°	5.1	5.1	5.1	5.1	5.1
67.5°	5.1	5.1	5.1	5.1	5.1
70°	4.3	4.3	4.3	4.3	4.3
72.5°	3.4	3.4	3.4	3.4	3.4
75°	2.6	2.6	2.6	2.6	3.4
77.5°	2.6	2.6	2.6	2.6	2.6
80°	1.7	1.7	1.7	1.7	1.7
82.5°	1.7	1.7	1.7	1.7	1.7
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





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

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