

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: P745743

Luminaire Tested: LD4D30D010-EU4DR1515309024-4LBSQW1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745743
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: LD4D30D010-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: 2143.4 lumens
Efficiency: N/A
Efficacy: 73.9 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): 29
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



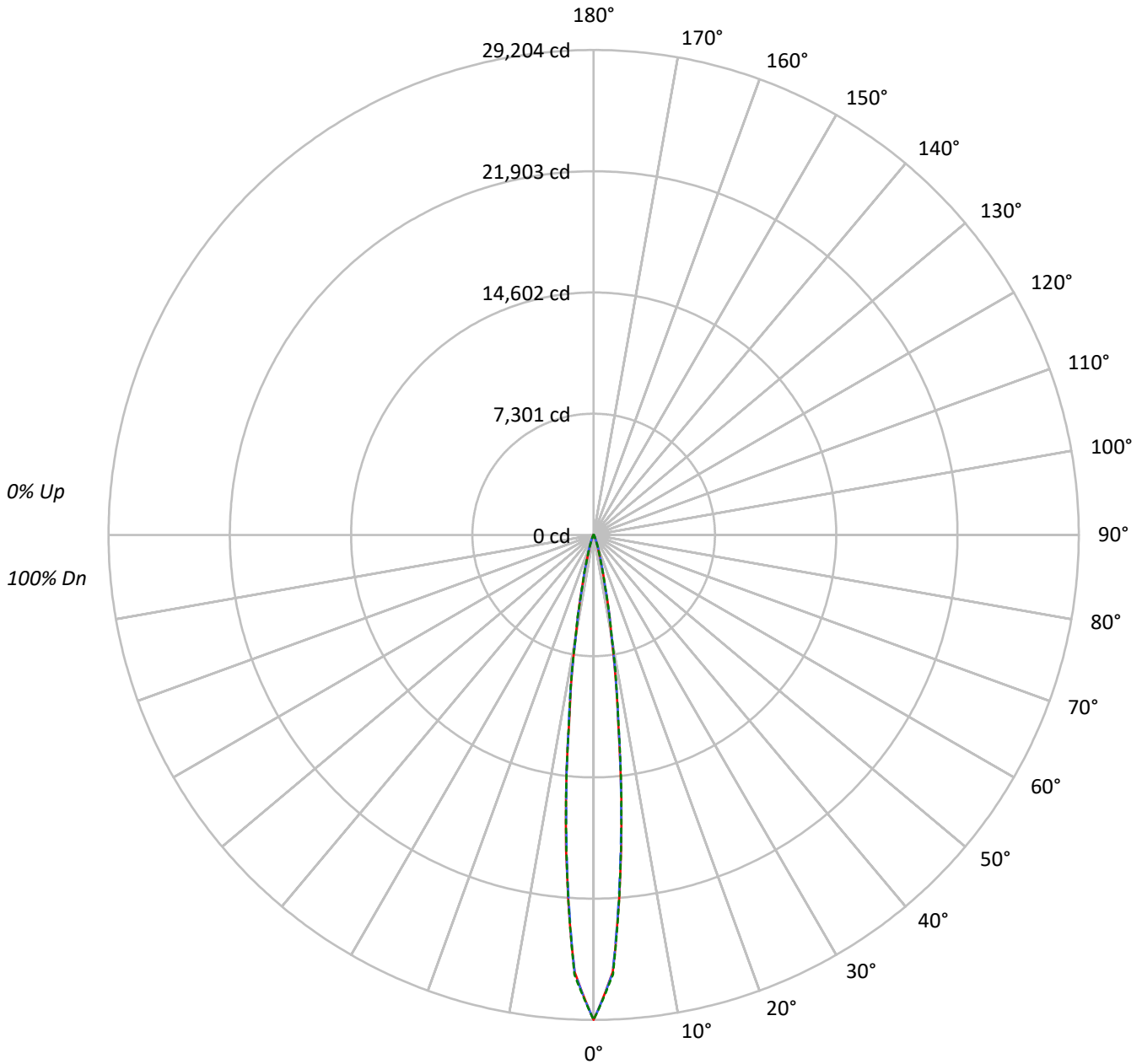
Downlight



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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	88	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°	3286033	3286033	3286033
5°	1931030	1906020	1921101
10°	576324	580355	589237
15°	143357	146145	141637
20°	42892	49666	43800
25°	15121	19265	15315
30°	5556	7316	5646
35°	2781	3144	2694
40°	1754	1932	1754
45°	1295	1386	1295
50°	1029	1029	1029
55°	863	863	863
60°	695	695	695
65°	528	528	528
70°	453	453	453
75°	280	280	370
80°	197	197	197
85°	100	100	100

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1386 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1390.2	64.9
10°-20°	571.8	26.7
20°-30°	113.6	5.3
30°-40°	28.3	1.3
40°-50°	14.9	0.7
50°-60°	11.0	0.5
60°-70°	7.8	0.4
70°-80°	4.4	0.2
80°-90°	1.3	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°	2075.6	96.8
0°-40°	2103.9	98.2
0°-60°	2129.9	99.4
0°-90°	2143.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2143.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29204	29204	29204	29204	29204	
5°	19001	18805	18755	18884	18903	1388
15°	1650	1681	1683	1653	1631	566
25°	194	220	247	219	197	102
35°	38	41	43	41	37	26
45°	18	18	20	18	18	14
55°	12	12	12	12	12	11
65°	7	7	7	7	7	8
75°	4	4	4	4	5	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°	29204.0	29204.0	29204.0	29204.0	29204.0
2.5°	26343.2	26365.4	26374.1	26400.0	26496.5
5°	19000.8	18805.4	18754.7	18884.5	18903.1
7.5°	11255.3	11294.9	11439.5	11471.7	11355.5
10°	6176.6	6227.3	6219.8	6264.4	6315.0
12.5°	3158.8	3119.2	3106.8	3157.5	3087.1
15°	1650.5	1681.4	1682.6	1652.9	1630.7
17.5°	887.7	923.5	982.9	934.6	860.5
20°	524.2	556.3	607.0	567.5	535.3
22.5°	323.9	349.9	385.7	354.8	328.9
25°	194.1	220.1	247.3	218.8	196.6
27.5°	115.0	137.2	154.5	136.0	113.7
30°	74.2	86.5	97.7	85.3	75.4
32.5°	51.9	56.9	61.8	56.9	51.9
35°	38.3	40.8	43.3	40.8	37.1
37.5°	29.7	32.1	33.4	30.9	28.4
40°	24.7	26.0	27.2	26.0	24.7
42.5°	21.0	22.3	22.3	22.3	21.0
45°	18.5	18.5	19.8	18.5	18.5
47.5°	16.1	16.1	17.3	16.1	16.1
50°	14.8	14.8	14.8	14.8	14.8
52.5°	13.6	13.6	13.6	13.6	13.6
55°	12.4	12.4	12.4	12.4	12.4
57.5°	11.1	11.1	11.1	11.1	11.1
60°	9.9	9.9	9.9	9.9	9.9
62.5°	8.7	8.7	8.7	8.7	8.7
65°	7.4	7.4	7.4	7.4	7.4
67.5°	7.4	7.4	7.4	7.4	7.4
70°	6.2	6.2	6.2	6.2	6.2
72.5°	4.9	4.9	4.9	4.9	4.9
75°	3.7	3.7	3.7	3.7	4.9
77.5°	3.7	3.7	3.7	3.7	3.7
80°	2.5	2.5	2.5	2.5	2.5
82.5°	2.5	2.5	2.5	2.5	2.5
85°	1.2	1.2	1.2	1.2	1.2
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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