

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: P743897

Luminaire Tested: LD4D20D010-EU4DR1515309030-4LBSQW1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743897
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-EU4DR1515309030-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1691.6 lumens
Efficiency: N/A
Efficacy: 73.2 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



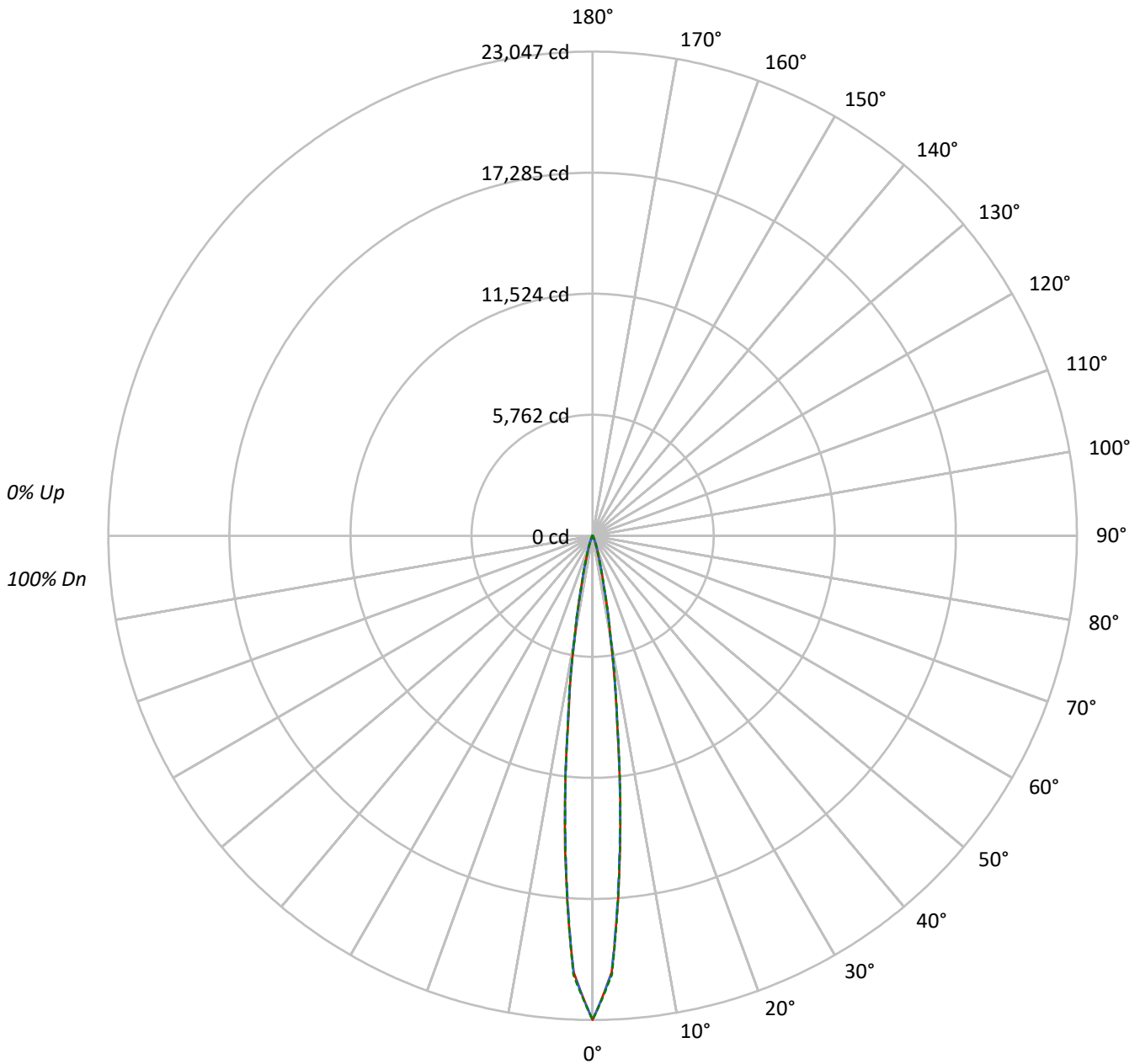
Downlight



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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°	2593292	2593292	2593292
5°	1523946	1504209	1516110
10°	454828	458010	465026
15°	113131	115337	111776
20°	33850	39201	34570
25°	11934	15198	12082
30°	4381	5773	4455
35°	2193	2476	2128
40°	1385	1527	1385
45°	1022	1092	1022
50°	814	814	814
55°	682	682	682
60°	548	548	548
65°	421	421	421
70°	358	358	358
75°	219	219	295
80°	158	158	158
85°	83	83	83

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1092 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1097.1	64.9
10°-20°	451.3	26.7
20°-30°	89.6	5.3
30°-40°	22.4	1.3
40°-50°	11.8	0.7
50°-60°	8.7	0.5
60°-70°	6.2	0.4
70°-80°	3.5	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°	1638.0	96.8
0°-40°	1660.4	98.2
0°-60°	1680.9	99.4
0°-90°	1691.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1691.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23047	23047	23047	23047	23047	
5°	14995	14841	14801	14903	14918	1095
15°	1302	1327	1328	1304	1287	447
25°	153	174	195	173	155	80
35°	30	32	34	32	29	21
45°	15	15	16	15	15	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°	23047.4	23047.4	23047.4	23047.4	23047.4
2.5°	20789.7	20807.3	20814.1	20834.6	20910.7
5°	14995.2	14841.0	14801.0	14903.4	14918.1
7.5°	8882.6	8913.8	9027.9	9053.3	8961.6
10°	4874.5	4914.5	4908.6	4943.7	4983.8
12.5°	2492.9	2461.6	2451.9	2491.9	2436.3
15°	1302.5	1326.9	1327.9	1304.5	1286.9
17.5°	700.5	728.8	775.7	737.6	679.1
20°	413.7	439.1	479.1	447.8	422.5
22.5°	255.6	276.1	304.4	280.0	259.5
25°	153.2	173.7	195.1	172.7	155.1
27.5°	90.7	108.3	122.0	107.3	89.8
30°	58.5	68.3	77.1	67.3	59.5
32.5°	41.0	44.9	48.8	44.9	41.0
35°	30.2	32.2	34.1	32.2	29.3
37.5°	23.4	25.4	26.3	24.4	22.4
40°	19.5	20.5	21.5	20.5	19.5
42.5°	16.6	17.6	17.6	17.6	16.6
45°	14.6	14.6	15.6	14.6	14.6
47.5°	12.7	12.7	13.7	12.7	12.7
50°	11.7	11.7	11.7	11.7	11.7
52.5°	10.7	10.7	10.7	10.7	10.7
55°	9.8	9.8	9.8	9.8	9.8
57.5°	8.8	8.8	8.8	8.8	8.8
60°	7.8	7.8	7.8	7.8	7.8
62.5°	6.8	6.8	6.8	6.8	6.8
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°	2.9	2.9	2.9	2.9	2.9
77.5°	2.9	2.9	2.9	2.9	2.9
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





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

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