

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: P743926

Luminaire Tested: LD4D20D010-EU4DR1515309050-4LBCSSQMW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743926
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-EU4DR1515309050-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1880.5 lumens
Efficiency: N/A
Efficacy: 81.4 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



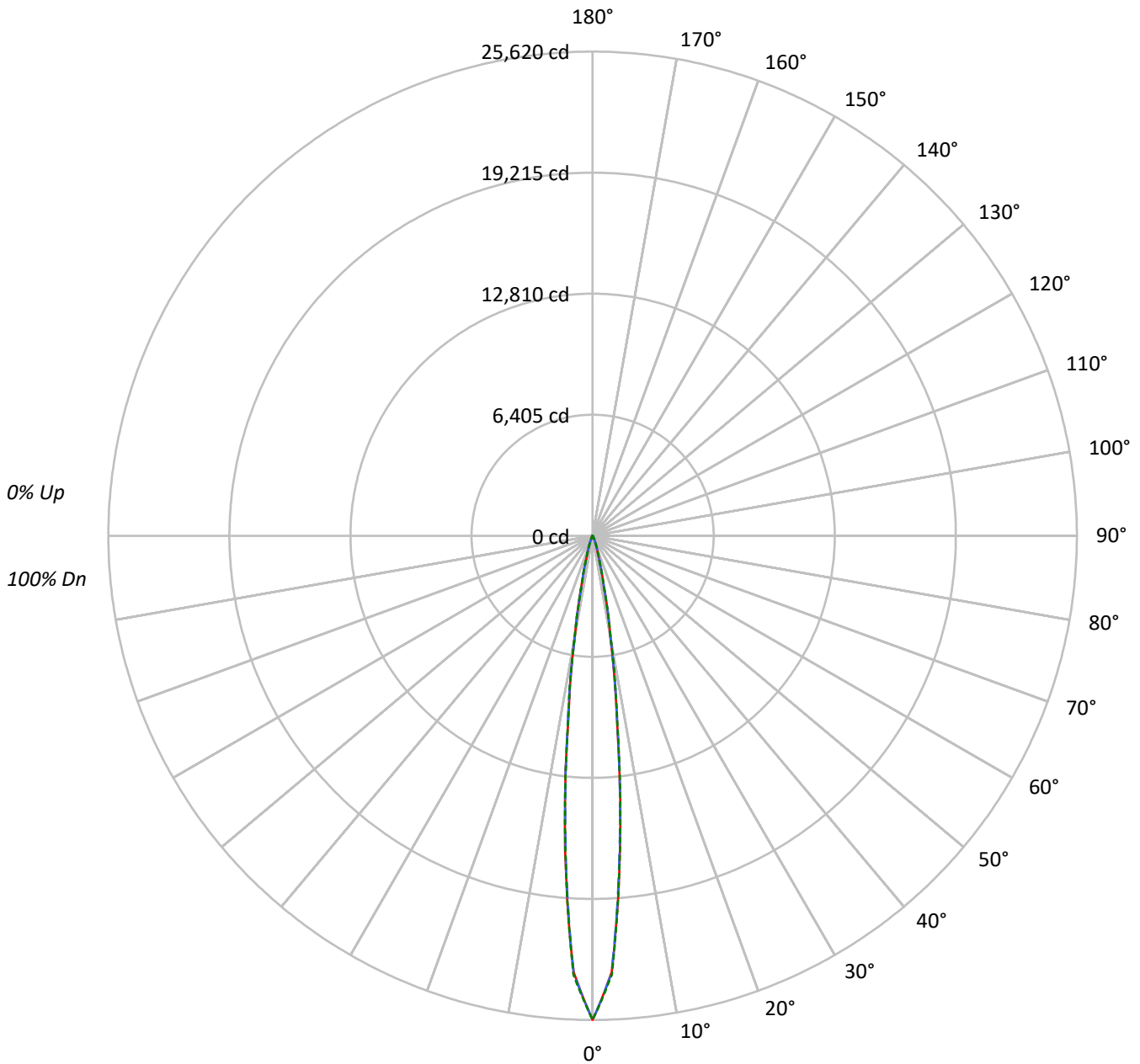
Downlight



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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	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°	2882817	2882817	2882817
5°	1694073	1672141	1685373
10°	505606	509142	516933
15°	125760	128209	124257
20°	37630	43571	38424
25°	13266	16897	13438
30°	4875	6417	4957
35°	2440	2760	2360
40°	1541	1697	1541
45°	1141	1218	1141
50°	904	904	904
55°	752	752	752
60°	611	611	611
65°	464	464	464
70°	395	395	395
75°	249	249	325
80°	173	173	173
85°	91	91	91

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1218 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1219.6	64.9
10°-20°	501.6	26.7
20°-30°	99.6	5.3
30°-40°	24.9	1.3
40°-50°	13.1	0.7
50°-60°	9.7	0.5
60°-70°	6.8	0.4
70°-80°	3.9	0.2
80°-90°	1.2	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°	1820.9	96.8
0°-40°	1845.7	98.2
0°-60°	1868.5	99.4
0°-90°	1880.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1880.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25620	25620	25620	25620	25620	
5°	16669	16498	16453	16567	16584	1217
15°	1448	1475	1476	1450	1431	496
25°	170	193	217	192	172	89
35°	34	36	38	36	32	23
45°	16	16	17	16	16	13
55°	11	11	11	11	11	10
65°	6	6	6	6	6	7
75°	3	3	3	3	4	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°	25620.5	25620.5	25620.5	25620.5	25620.5
2.5°	23110.7	23130.2	23137.8	23160.6	23245.2
5°	16669.2	16497.9	16453.4	16567.3	16583.6
7.5°	9874.2	9908.9	10035.8	10064.0	9962.1
10°	5418.7	5463.1	5456.6	5495.7	5540.1
12.5°	2771.2	2736.4	2725.6	2770.1	2708.2
15°	1447.9	1475.1	1476.1	1450.1	1430.6
17.5°	778.7	810.2	862.3	820.0	754.9
20°	459.9	488.1	532.5	497.8	469.6
22.5°	284.2	306.9	338.4	311.3	288.5
25°	170.3	193.1	216.9	192.0	172.5
27.5°	100.9	120.4	135.6	119.3	99.8
30°	65.1	75.9	85.7	74.8	66.2
32.5°	45.6	49.9	54.2	49.9	45.6
35°	33.6	35.8	38.0	35.8	32.5
37.5°	26.0	28.2	29.3	27.1	24.9
40°	21.7	22.8	23.9	22.8	21.7
42.5°	18.4	19.5	19.5	19.5	18.4
45°	16.3	16.3	17.4	16.3	16.3
47.5°	14.1	14.1	15.2	14.1	14.1
50°	13.0	13.0	13.0	13.0	13.0
52.5°	11.9	11.9	11.9	11.9	11.9
55°	10.8	10.8	10.8	10.8	10.8
57.5°	9.8	9.8	9.8	9.8	9.8
60°	8.7	8.7	8.7	8.7	8.7
62.5°	7.6	7.6	7.6	7.6	7.6
65°	6.5	6.5	6.5	6.5	6.5
67.5°	6.5	6.5	6.5	6.5	6.5
70°	5.4	5.4	5.4	5.4	5.4
72.5°	4.3	4.3	4.3	4.3	4.3
75°	3.3	3.3	3.3	3.3	4.3
77.5°	3.3	3.3	3.3	3.3	3.3
80°	2.2	2.2	2.2	2.2	2.2
82.5°	2.2	2.2	2.2	2.2	2.2
85°	1.1	1.1	1.1	1.1	1.1
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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