

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: P741930

Luminaire Tested: LD4D10D010-EU4DR150210IC9050-4LBCSSQMW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P741930
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: LD4D10D010-EU4DR150210IC9050-4LBCSSQMW
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: 1019.2 lumens
Efficiency: N/A
Efficacy: 87.1 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): 11.7
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

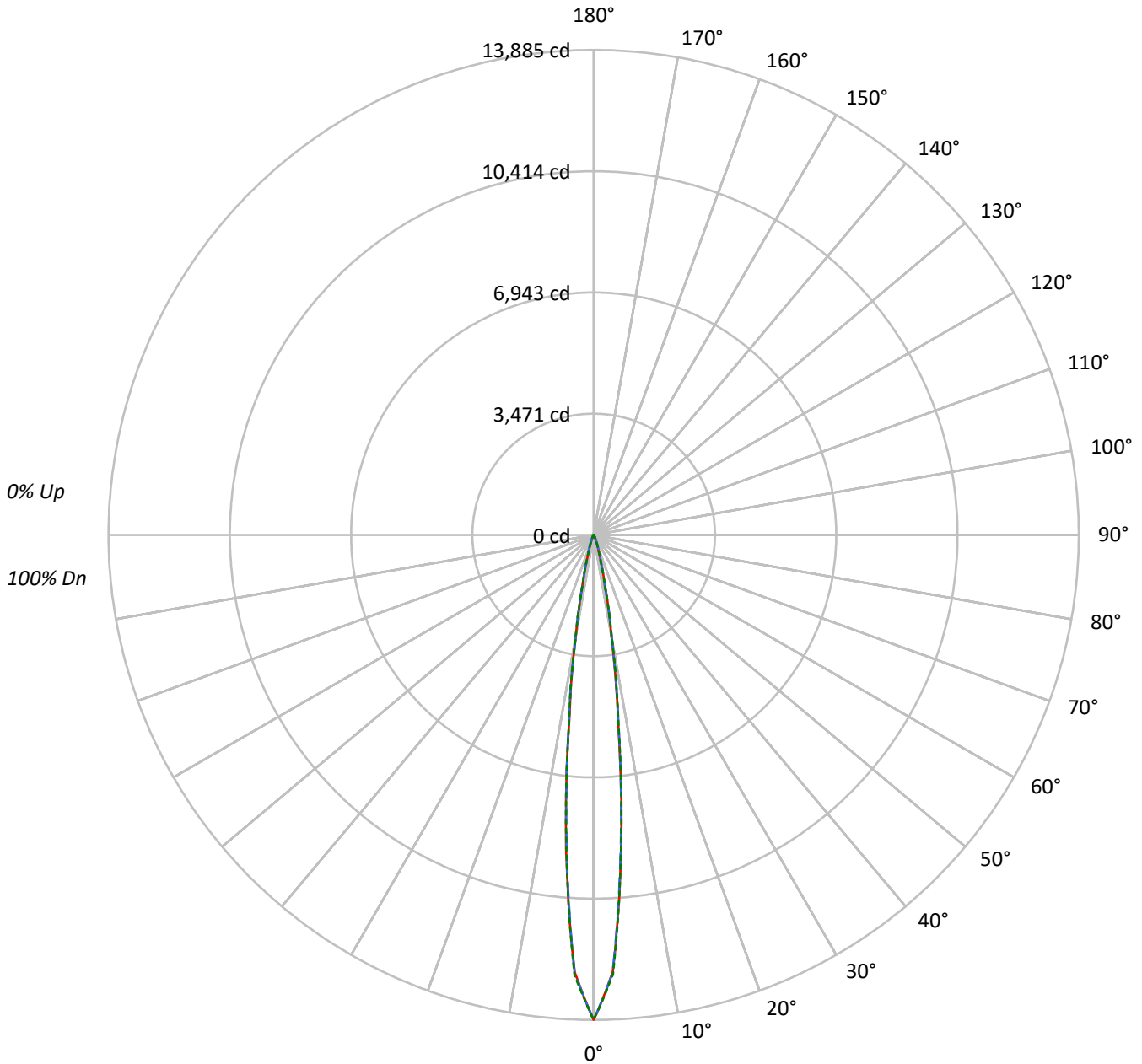


Downlight



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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°	1562384	1562384	1562384
5°	918126	906245	913410
10°	274016	275939	280165
15°	68157	69485	67340
20°	20390	23614	20824
25°	7190	9161	7284
30°	2643	3474	2688
35°	1322	1496	1278
40°	838	916	838
45°	616	658	616
50°	494	494	494
55°	411	411	411
60°	330	330	330
65°	250	250	250
70°	212	212	212
75°	136	136	181
80°	95	95	95
85°	50	50	50

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 658 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	661.0	64.9
10°-20°	271.9	26.7
20°-30°	54.0	5.3
30°-40°	13.5	1.3
40°-50°	7.1	0.7
50°-60°	5.3	0.5
60°-70°	3.7	0.4
70°-80°	2.1	0.2
80°-90°	0.7	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°	986.9	96.8
0°-40°	1000.3	98.2
0°-60°	1012.7	99.4
0°-90°	1019.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1019.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13885	13885	13885	13885	13885	
5°	9034	8941	8917	8979	8988	660
15°	785	799	800	786	775	269
25°	92	105	118	104	94	48
35°	18	19	21	19	18	12
45°	9	9	9	9	9	7
55°	6	6	6	6	6	5
65°	4	4	4	4	4	4
75°	2	2	2	2	2	2
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°	13885.4	13885.4	13885.4	13885.4	13885.4
2.5°	12525.2	12535.8	12539.9	12552.2	12598.1
5°	9034.1	8941.3	8917.2	8978.9	8987.7
7.5°	5351.5	5370.3	5439.1	5454.3	5399.1
10°	2936.7	2960.8	2957.3	2978.5	3002.6
12.5°	1501.9	1483.1	1477.2	1501.3	1467.8
15°	784.7	799.4	800.0	785.9	775.3
17.5°	422.1	439.1	467.3	444.4	409.1
20°	249.2	264.5	288.6	269.8	254.5
22.5°	154.0	166.4	183.4	168.7	156.4
25°	92.3	104.6	117.6	104.0	93.5
27.5°	54.7	65.2	73.5	64.7	54.1
30°	35.3	41.1	46.4	40.6	35.9
32.5°	24.7	27.0	29.4	27.0	24.7
35°	18.2	19.4	20.6	19.4	17.6
37.5°	14.1	15.3	15.9	14.7	13.5
40°	11.8	12.3	12.9	12.3	11.8
42.5°	10.0	10.6	10.6	10.6	10.0
45°	8.8	8.8	9.4	8.8	8.8
47.5°	7.6	7.6	8.2	7.6	7.6
50°	7.1	7.1	7.1	7.1	7.1
52.5°	6.5	6.5	6.5	6.5	6.5
55°	5.9	5.9	5.9	5.9	5.9
57.5°	5.3	5.3	5.3	5.3	5.3
60°	4.7	4.7	4.7	4.7	4.7
62.5°	4.1	4.1	4.1	4.1	4.1
65°	3.5	3.5	3.5	3.5	3.5
67.5°	3.5	3.5	3.5	3.5	3.5
70°	2.9	2.9	2.9	2.9	2.9
72.5°	2.4	2.4	2.4	2.4	2.4
75°	1.8	1.8	1.8	1.8	2.4
77.5°	1.8	1.8	1.8	1.8	1.8
80°	1.2	1.2	1.2	1.2	1.2
82.5°	1.2	1.2	1.2	1.2	1.2
85°	0.6	0.6	0.6	0.6	0.6
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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