

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: P741904

Luminaire Tested: LD4D10D010-EU4DR150210IC9035-4LBCSSQMW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P741904
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-EU4DR150210IC9035-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1003.6 lumens
Efficiency: N/A
Efficacy: 85.8 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

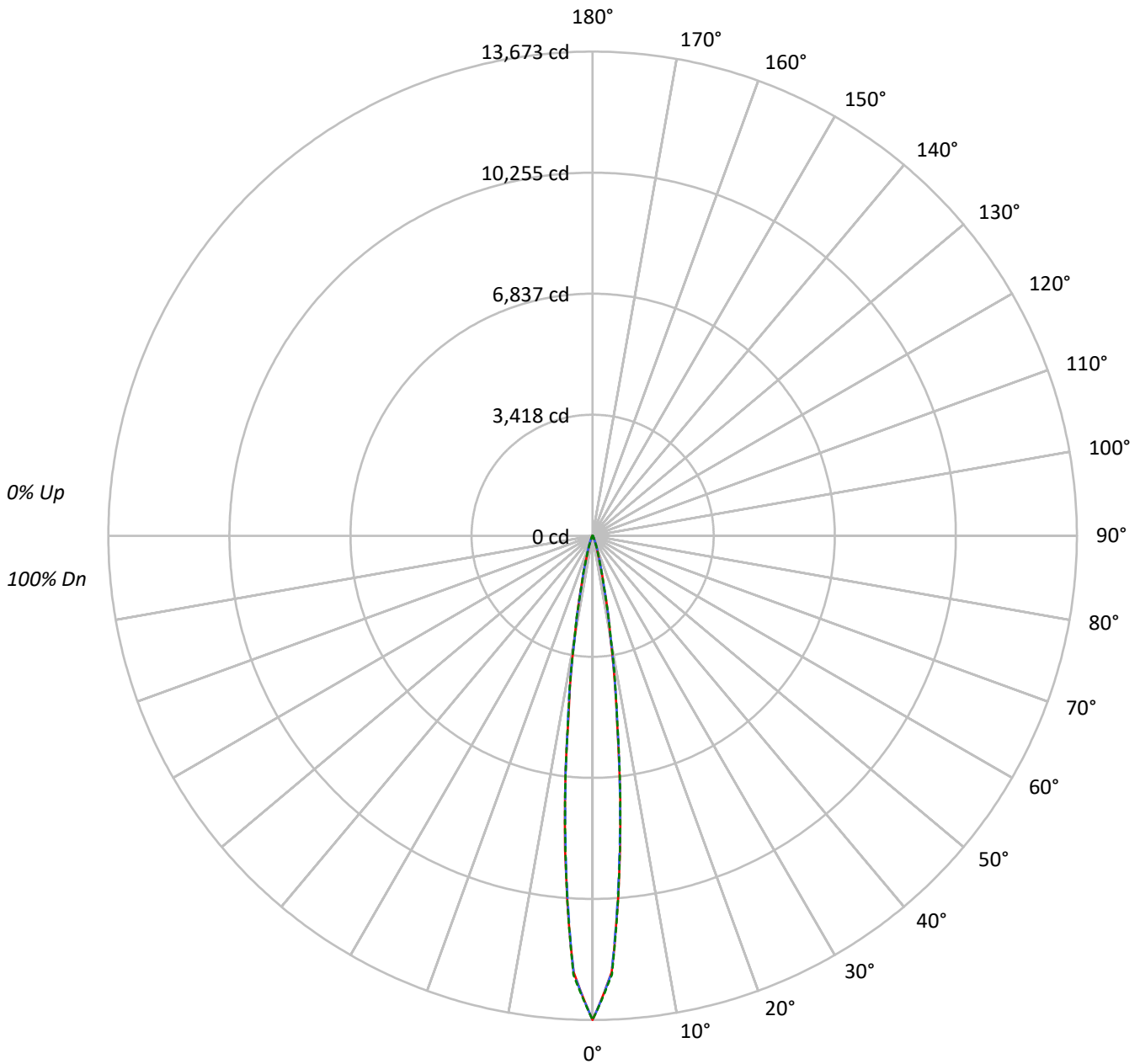


Downlight



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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					70					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°	1538485	1538485	1538485
5°	904091	892383	899446
10°	269827	271721	275873
15°	67114	68426	66315
20°	20079	23254	20505
25°	7081	9021	7167
30°	2598	3422	2643
35°	1300	1474	1264
40°	824	902	824
45°	609	651	609
50°	480	480	480
55°	404	404	404
60°	323	323	323
65°	250	250	250
70°	212	212	212
75°	128	128	174
80°	95	95	95
85°	50	50	50

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 651 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	650.9	64.9
10°-20°	267.7	26.7
20°-30°	53.2	5.3
30°-40°	13.3	1.3
40°-50°	7.0	0.7
50°-60°	5.2	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°	971.8	96.8
0°-40°	985.0	98.2
0°-60°	997.2	99.4
0°-90°	1003.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1003.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13673	13673	13673	13673	13673	
5°	8896	8804	8781	8842	8850	650
15°	773	787	788	774	764	265
25°	91	103	116	102	92	48
35°	18	19	20	19	17	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°	13673.0	13673.0	13673.0	13673.0	13673.0
2.5°	12333.6	12344.0	12348.1	12360.3	12405.4
5°	8896.0	8804.5	8780.8	8841.6	8850.3
7.5°	5269.6	5288.2	5355.9	5370.9	5316.5
10°	2891.8	2915.5	2912.1	2932.9	2956.6
12.5°	1478.9	1460.4	1454.6	1478.3	1445.3
15°	772.7	787.2	787.8	773.9	763.5
17.5°	415.6	432.4	460.2	437.6	402.9
20°	245.4	260.5	284.2	265.7	250.6
22.5°	151.7	163.8	180.6	166.1	154.0
25°	90.9	103.0	115.8	102.5	92.0
27.5°	53.8	64.2	72.4	63.7	53.3
30°	34.7	40.5	45.7	39.9	35.3
32.5°	24.3	26.6	28.9	26.6	24.3
35°	17.9	19.1	20.3	19.1	17.4
37.5°	13.9	15.0	15.6	14.5	13.3
40°	11.6	12.2	12.7	12.2	11.6
42.5°	9.8	10.4	10.4	10.4	9.8
45°	8.7	8.7	9.3	8.7	8.7
47.5°	7.5	7.5	8.1	7.5	7.5
50°	6.9	6.9	6.9	6.9	6.9
52.5°	6.4	6.4	6.4	6.4	6.4
55°	5.8	5.8	5.8	5.8	5.8
57.5°	5.2	5.2	5.2	5.2	5.2
60°	4.6	4.6	4.6	4.6	4.6
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°	2.3	2.3	2.3	2.3	2.3
75°	1.7	1.7	1.7	1.7	2.3
77.5°	1.7	1.7	1.7	1.7	1.7
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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