

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: P739092

Luminaire Tested: LD4D02D010-EU4DR300210IC9030-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P739092
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D02D010-EU4DR300210IC9030-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 258.5 lumens
Efficiency: N/A
Efficacy: 50.7 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 5.1
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



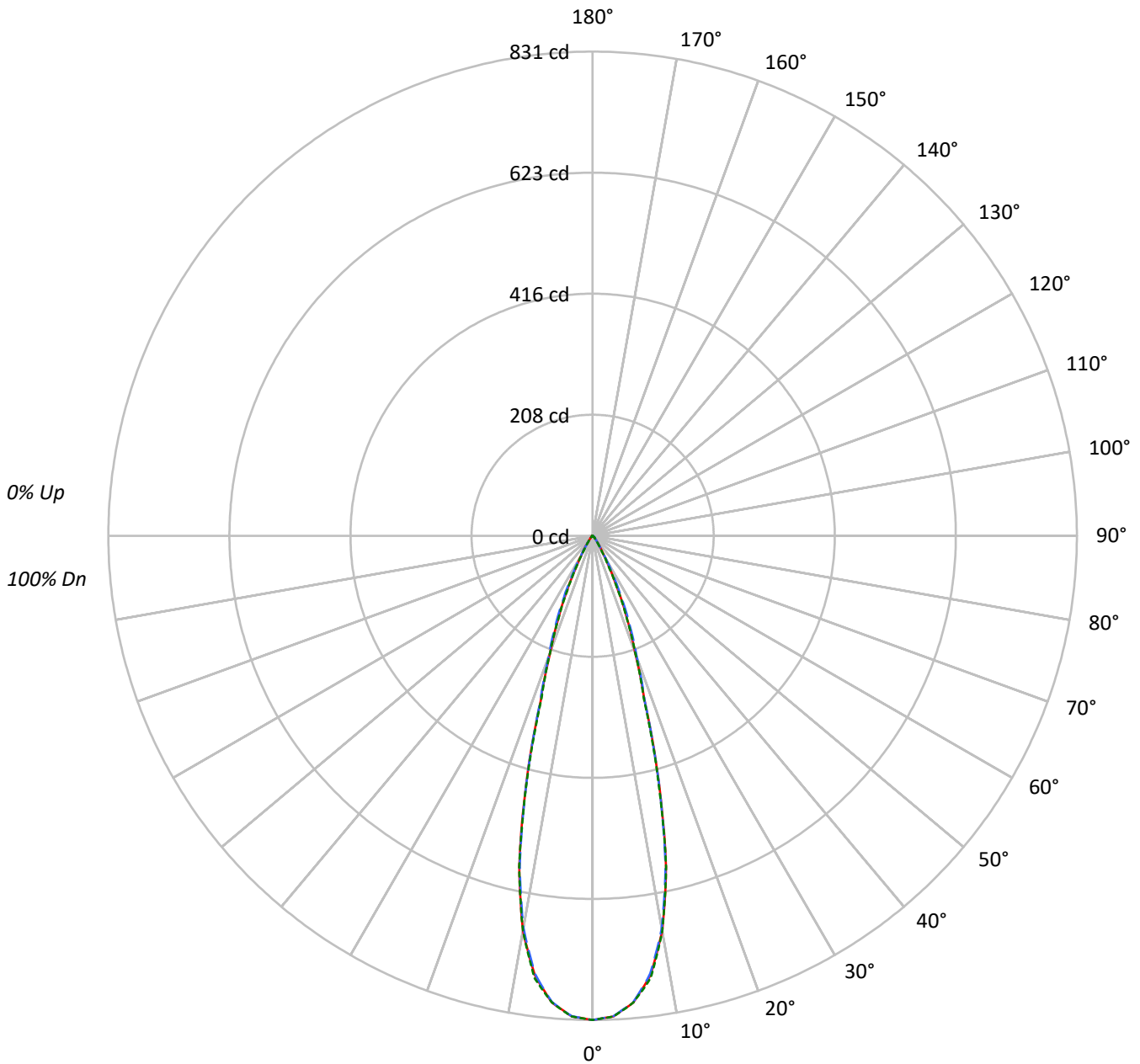
Downlight



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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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	63608	63608	63608
5°	61784	61714	61784
10°	53513	53132	53498
15°	34915	34732	34550
20°	17358	18018	17342
25°	8741	9864	8564
30°	3500	3809	3049
35°	1626	1560	1308
40°	699	779	659
45°	498	617	498
50°	167	453	179
55°	93	187	107
60°	77	77	77
65°	36	36	36
70°	22	22	22
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 617 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.1	28.3
10°-20°	117.7	45.5
20°-30°	50.9	19.7
30°-40°	11.6	4.5
40°-50°	4.0	1.5
50°-60°	1.0	0.4
60°-70°	0.2	0.1
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	241.6	93.5
0°-40°	253.2	98.0
0°-60°	258.2	99.9
0°-90°	258.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	258.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	831	831	831	831	831	
5°	804	803	803	805	804	73
15°	441	435	438	437	436	118
25°	104	108	117	105	101	50
35°	17	18	17	16	14	12
45°	5	6	6	6	5	3
55°	1	1	1	1	1	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	831.0	831.0	831.0	831.0	831.0
2.5°	825.5	824.9	825.3	825.7	825.9
5°	804.1	803.3	803.2	804.8	804.1
7.5°	760.9	759.8	758.1	761.9	765.5
10°	688.5	687.3	683.6	685.4	688.3
12.5°	581.7	577.7	577.6	583.3	582.5
15°	440.6	435.3	438.3	436.8	436.0
17.5°	296.3	294.3	298.2	297.0	291.9
20°	213.1	213.7	221.2	217.4	212.9
22.5°	155.6	157.4	166.3	156.6	153.1
25°	103.5	107.5	116.8	104.7	101.4
27.5°	63.7	65.5	74.9	62.9	61.1
30°	39.6	38.7	43.1	37.1	34.5
32.5°	26.0	24.9	26.3	23.6	21.5
35°	17.4	17.8	16.7	16.5	14.0
37.5°	10.8	12.5	11.0	11.7	9.0
40°	7.0	9.1	7.8	8.6	6.6
42.5°	5.7	7.0	6.4	6.8	5.9
45°	4.6	5.7	5.7	5.7	4.6
47.5°	2.5	3.8	4.9	3.9	2.7
50°	1.4	1.9	3.8	2.0	1.5
52.5°	1.0	1.1	2.6	1.1	1.0
55°	0.7	0.8	1.4	0.8	0.8
57.5°	0.6	0.6	0.7	0.6	0.6
60°	0.5	0.5	0.5	0.5	0.5
62.5°	0.3	0.3	0.3	0.3	0.3
65°	0.2	0.2	0.2	0.2	0.2
67.5°	0.1	0.2	0.2	0.2	0.2
70°	0.1	0.1	0.1	0.1	0.1
72.5°	0.1	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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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