

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: P740914

Luminaire Tested: LD4D08D010-EU4DR150210IC9050-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P740914
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: LD4D08D010-EU4DR150210IC9050-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 741.1 lumens
Efficiency: N/A
Efficacy: 83.3 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): 8.9
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



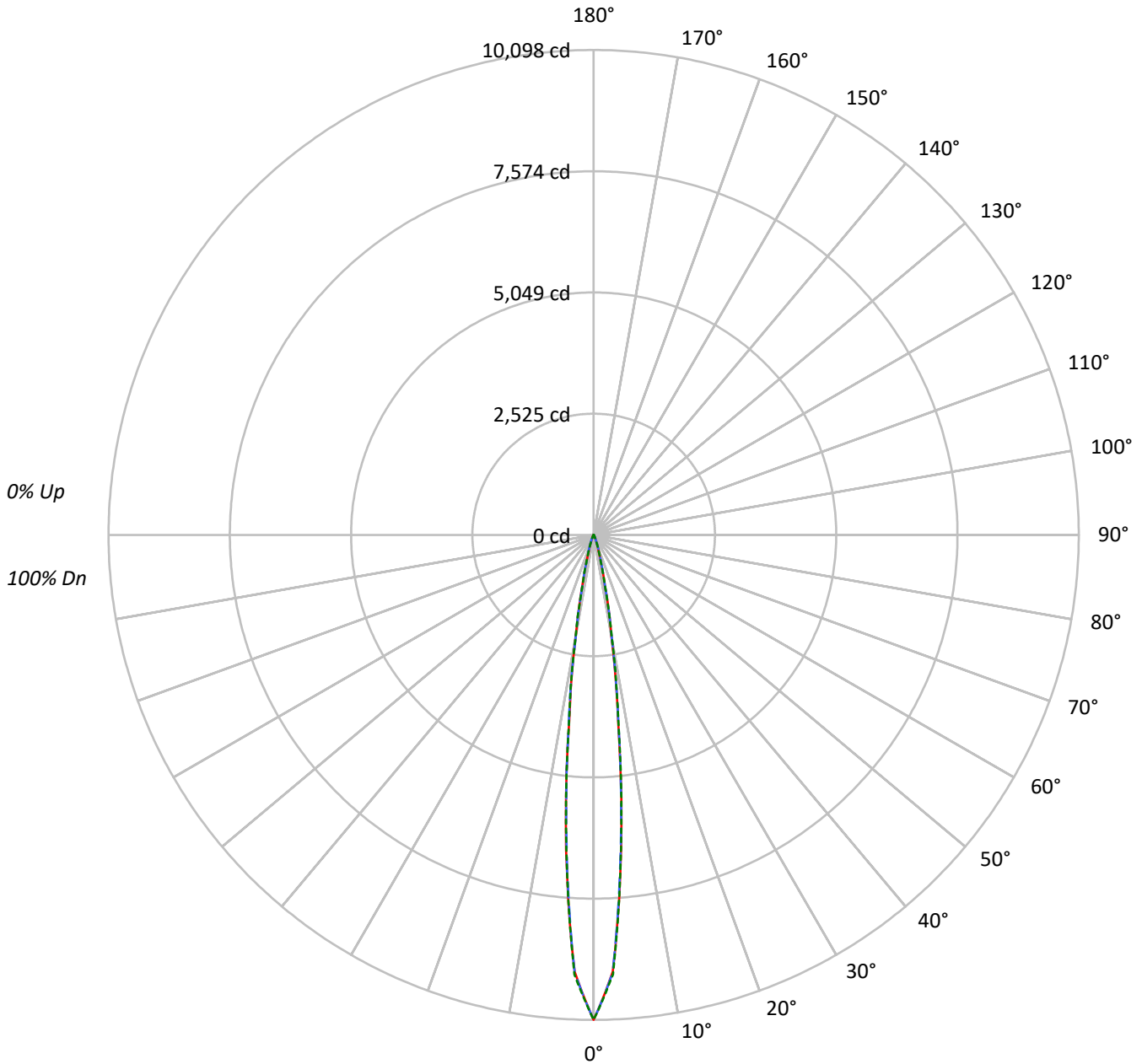
Downlight



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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°	1136181	1136181	1136181
5°	667671	659033	664236
10°	199268	200667	203737
15°	49569	50533	48970
20°	14826	17175	15145
25°	5227	6661	5297
30°	1917	2531	1954
35°	966	1089	930
40°	604	668	604
45°	448	476	448
50°	355	355	355
55°	299	299	299
60°	239	239	239
65°	186	186	186
70°	154	154	154
75°	98	98	128
80°	71	71	71
85°	33	33	33

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 476 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.7	64.9
10°-20°	197.7	26.7
20°-30°	39.3	5.3
30°-40°	9.8	1.3
40°-50°	5.2	0.7
50°-60°	3.8	0.5
60°-70°	2.7	0.4
70°-80°	1.5	0.2
80°-90°	0.5	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°	717.6	96.8
0°-40°	727.5	98.2
0°-60°	736.4	99.4
0°-90°	741.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	741.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10098	10098	10098	10098	10098	
5°	6570	6502	6485	6530	6536	480
15°	571	581	582	572	564	196
25°	67	76	86	76	68	35
35°	13	14	15	14	13	9
45°	6	6	7	6	6	5
55°	4	4	4	4	4	4
65°	3	3	3	3	3	3
75°	1	1	1	1	2	2
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°	10097.6	10097.6	10097.6	10097.6	10097.6
2.5°	9108.4	9116.1	9119.1	9128.1	9161.4
5°	6569.7	6502.2	6484.7	6529.5	6535.9
7.5°	3891.6	3905.3	3955.3	3966.5	3926.3
10°	2135.6	2153.1	2150.6	2166.0	2183.5
12.5°	1092.2	1078.5	1074.2	1091.7	1067.4
15°	570.7	581.4	581.8	571.5	563.8
17.5°	306.9	319.3	339.8	323.2	297.5
20°	181.2	192.4	209.9	196.2	185.1
22.5°	112.0	121.0	133.4	122.7	113.7
25°	67.1	76.1	85.5	75.7	68.0
27.5°	39.8	47.4	53.4	47.0	39.3
30°	25.6	29.9	33.8	29.5	26.1
32.5°	18.0	19.7	21.4	19.7	18.0
35°	13.3	14.1	15.0	14.1	12.8
37.5°	10.3	11.1	11.5	10.7	9.8
40°	8.5	9.0	9.4	9.0	8.5
42.5°	7.3	7.7	7.7	7.7	7.3
45°	6.4	6.4	6.8	6.4	6.4
47.5°	5.6	5.6	6.0	5.6	5.6
50°	5.1	5.1	5.1	5.1	5.1
52.5°	4.7	4.7	4.7	4.7	4.7
55°	4.3	4.3	4.3	4.3	4.3
57.5°	3.8	3.8	3.8	3.8	3.8
60°	3.4	3.4	3.4	3.4	3.4
62.5°	3.0	3.0	3.0	3.0	3.0
65°	2.6	2.6	2.6	2.6	2.6
67.5°	2.6	2.6	2.6	2.6	2.6
70°	2.1	2.1	2.1	2.1	2.1
72.5°	1.7	1.7	1.7	1.7	1.7
75°	1.3	1.3	1.3	1.3	1.7
77.5°	1.3	1.3	1.3	1.3	1.3
80°	0.9	0.9	0.9	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.4	0.4	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





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

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