

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: P741158

Luminaire Tested: LD4D08D010-EU4DR300210IC9050-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P741158
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: LD4D08D010-EU4DR300210IC9050-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 783.0 lumens
Efficiency: N/A
Efficacy: 88.0 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): 8.9
Input Voltage (V): NR
Input Current (A_{in}): 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



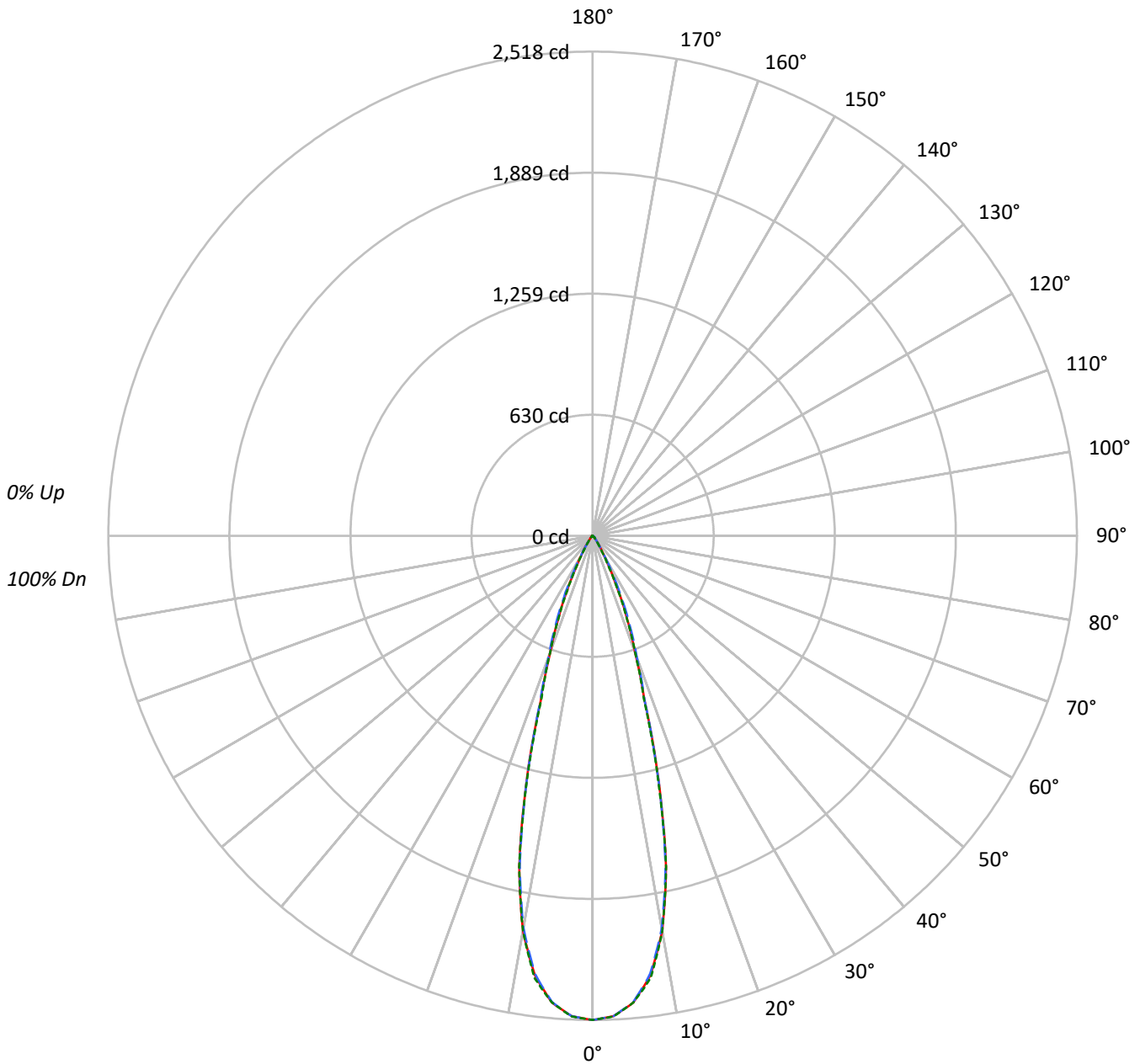
Downlight



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	192729	192729	192729
5°	187195	186980	187203
10°	162140	160998	162102
15°	105790	105220	104689
20°	52604	54575	52531
25°	26494	29881	25953
30°	10606	11561	9245
35°	4924	4709	3953
40°	2128	2358	2008
45°	1505	1862	1515
50°	524	1358	548
55°	294	560	307
60°	214	245	214
65°	127	127	127
70°	67	45	67
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 1862 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.4	28.3
10°-20°	356.6	45.5
20°-30°	154.1	19.7
30°-40°	35.1	4.5
40°-50°	12.1	1.5
50°-60°	2.9	0.4
60°-70°	0.7	0.1
70°-80°	0.1	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°	732.1	93.5
0°-40°	767.2	98.0
0°-60°	782.2	99.9
0°-90°	783.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	783.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2518	2518	2518	2518	2518	
5°	2436	2434	2434	2438	2436	222
15°	1335	1319	1328	1324	1321	357
25°	314	326	354	317	307	150
35°	53	54	50	50	42	36
45°	14	17	17	17	14	10
55°	2	2	4	2	2	2
65°	1	1	1	1	1	1
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°	2517.9	2517.9	2517.9	2517.9	2517.9
2.5°	2501.2	2499.5	2500.5	2501.7	2502.2
5°	2436.3	2434.0	2433.5	2438.5	2436.4
7.5°	2305.4	2302.1	2297.0	2308.5	2319.2
10°	2086.1	2082.4	2071.4	2076.8	2085.6
12.5°	1762.3	1750.4	1750.1	1767.4	1765.0
15°	1335.0	1318.9	1327.8	1323.5	1321.1
17.5°	897.8	891.6	903.4	899.8	884.4
20°	645.8	647.4	670.0	658.7	644.9
22.5°	471.3	477.0	503.9	474.6	463.8
25°	313.7	325.6	353.8	317.4	307.3
27.5°	193.0	198.4	226.9	190.5	185.1
30°	120.0	117.3	130.8	112.2	104.6
32.5°	78.7	75.3	79.6	71.4	65.3
35°	52.7	53.8	50.4	50.1	42.3
37.5°	32.9	37.8	33.4	35.6	27.2
40°	21.3	27.4	23.6	26.1	20.1
42.5°	17.4	21.1	19.4	20.6	17.8
45°	13.9	17.2	17.2	17.2	14.0
47.5°	7.7	11.5	14.7	11.7	8.1
50°	4.4	5.8	11.4	6.1	4.6
52.5°	3.0	3.3	7.8	3.4	3.1
55°	2.2	2.3	4.2	2.5	2.3
57.5°	1.7	1.8	2.2	1.8	1.7
60°	1.4	1.4	1.6	1.5	1.4
62.5°	1.0	1.0	1.1	1.0	1.0
65°	0.7	0.7	0.7	0.7	0.7
67.5°	0.3	0.5	0.5	0.5	0.5
70°	0.3	0.2	0.2	0.2	0.3
72.5°	0.2	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

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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