

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: HALO

Report Number: P886571

Luminaire Tested: ML310LSFL95FS1E-TIR4D25NFL-TL3SDMB-850LM-5000K

Issue Date: 7/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P886571
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML310LSFL95FS1E-TIR4D25NFL-TL3SDMB-850LM-5000K
Description: 3IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1085.6 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 0.5 / 0.49 / 0.52
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')

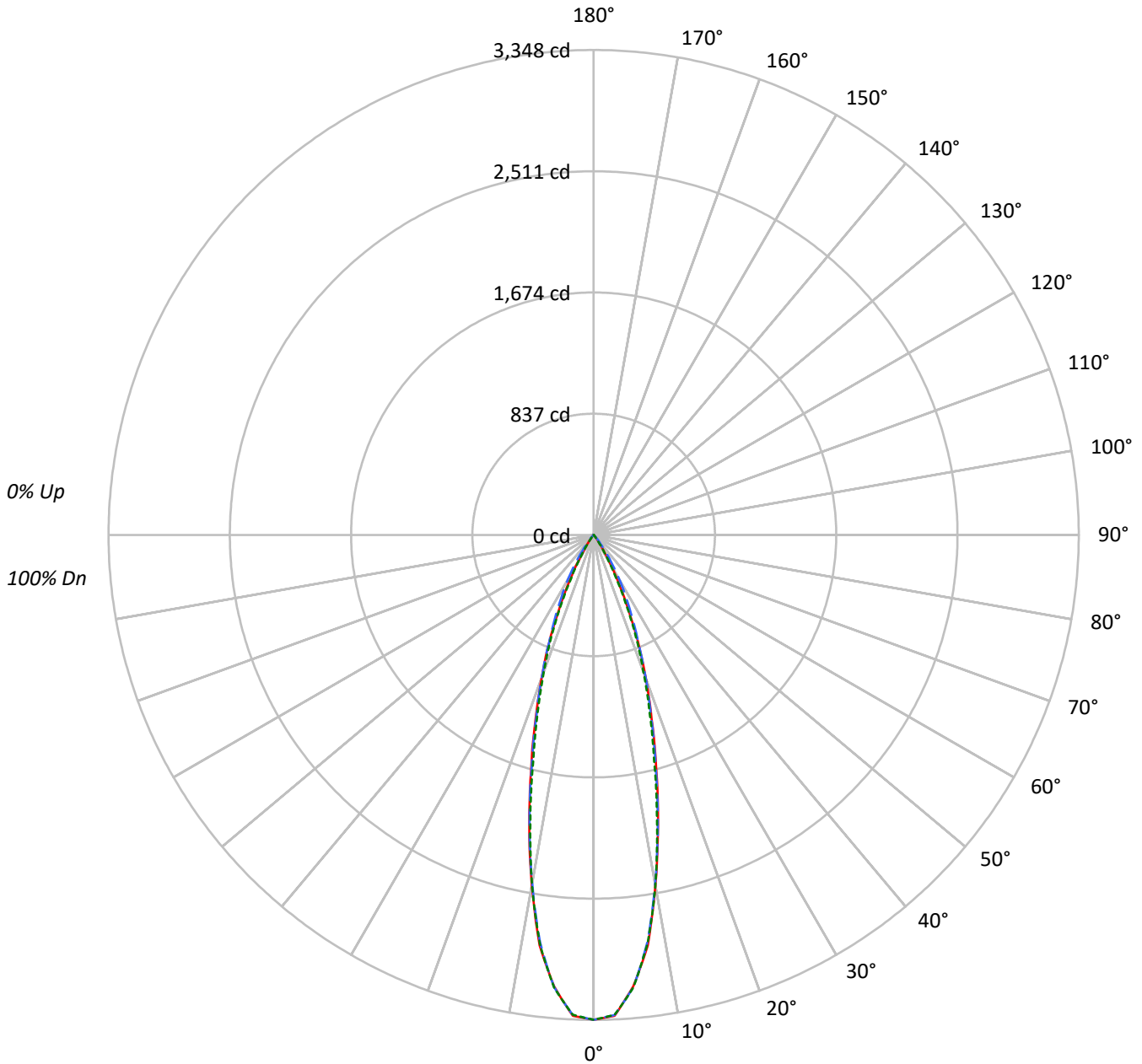
CIE Type: Direct

Input Watts (W): 13.6
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



TEST NUMBER: P886571
CATALOG NUMBER: ML310LSFL95FS1E-TIR4D25NFL-TL3SDMB-850LM-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P886571

CATALOG NUMBER: ML310LSFL95FS1E-TIR4D25NFL-TL3SDMB-850LM-5000K

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	115	112	110	109	112	110	108	107	106	105	104	103	102	100	99	98	98	96					96			
2	110	107	103	101	108	105	102	100	102	99	97	99	97	95	96	95	93	92					92			
3	106	101	98	94	105	100	97	94	98	95	92	95	93	91	93	91	89	88					88			
4	103	97	93	89	101	96	92	89	94	90	88	92	89	87	90	88	86	84					84			
5	99	93	88	85	98	92	88	84	90	86	84	89	85	83	87	84	82	81					81			
6	96	89	84	81	94	88	84	81	87	83	80	85	82	80	84	81	79	78					78			
7	92	85	81	77	91	85	80	77	84	80	77	83	79	77	82	78	76	75					75			
8	89	82	78	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72					72			
9	87	79	75	72	86	79	74	71	78	74	71	77	74	71	76	73	71	70					70			
10	84	76	72	69	83	76	72	69	75	71	69	75	71	69	74	71	68	67					67			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	576515	576515	576515
5°	540822	541929	542464
10°	429521	427493	429329
15°	297401	294584	286489
20°	191761	191761	183642
25°	105712	119128	100505
30°	44625	69563	38759
35°	13960	29897	11521
40°	2833	10657	2833
45°	1023	2557	1023
50°	295	857	295
55°	0	330	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 2557 cd/sqm



TEST NUMBER: P886571

CATALOG NUMBER: ML310LSFL95FS1E-TIR4D25NFL-TL3SDMB-850LM-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.4	25.6
10°-20°	457.4	42.1
20°-30°	274.1	25.2
30°-40°	69.3	6.4
40°-50°	6.9	0.6
50°-60°	0.6	0.1
60°-70°	0.0	0.0
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°	1008.9	92.9
0°-40°	1078.2	99.3
0°-60°	1085.6	100.0
0°-90°	1085.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1085.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3348	3348	3348	3348	3348	
5°	3128	3140	3135	3135	3138	278
15°	1668	1658	1652	1641	1607	462
25°	556	604	627	587	529	262
35°	66	95	142	83	55	51
45°	4	6	10	6	4	4
55°	0	0	1	0	0	0
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	0



TEST NUMBER: P886571

CATALOG NUMBER: ML310LSFL95FS1E-TIR4D25NFL-TL3SDMB-850LM-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3347.5	3347.5	3347.5	3347.5	3347.5
2.5°	3322.2	3314.8	3316.9	3314.8	3315.9
5°	3128.3	3139.9	3134.7	3134.7	3137.8
7.5°	2858.6	2840.7	2837.5	2836.5	2847.0
10°	2456.1	2467.7	2444.5	2450.8	2455.0
12.5°	2051.5	2048.3	2046.2	2035.7	2020.9
15°	1668.0	1658.5	1652.2	1640.6	1606.8
17.5°	1331.8	1330.8	1317.1	1295.0	1282.3
20°	1046.3	1051.6	1046.3	1024.2	1002.0
22.5°	801.8	827.1	807.1	798.7	763.9
25°	556.3	603.8	626.9	586.9	528.9
27.5°	368.8	419.4	478.4	396.2	338.2
30°	224.4	268.7	349.8	251.8	194.9
32.5°	127.5	166.5	238.1	151.7	107.5
35°	66.4	94.8	142.2	83.2	54.8
37.5°	27.4	47.4	82.2	41.1	24.2
40°	12.6	20.0	47.4	19.0	12.6
42.5°	7.4	9.5	24.2	9.5	7.4
45°	4.2	6.3	10.5	6.3	4.2
47.5°	3.2	3.2	5.3	3.2	3.2
50°	1.1	2.1	3.2	2.1	1.1
52.5°	1.1	1.1	2.1	1.1	1.1
55°	0.0	0.0	1.1	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	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



Report Generated By 670245859 / DESKTOP-T8S5UU9

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

Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



(END OF REPORT)