

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: P886569

Luminaire Tested: ML310LSFL95FS1E-TIR4D25NFL-TL3SDMB-850LM-3500K

Issue Date: 7/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P886569
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-3500K
Description: 3IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1001.9 lumens
Efficiency: N/A
Efficacy: 73.7 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

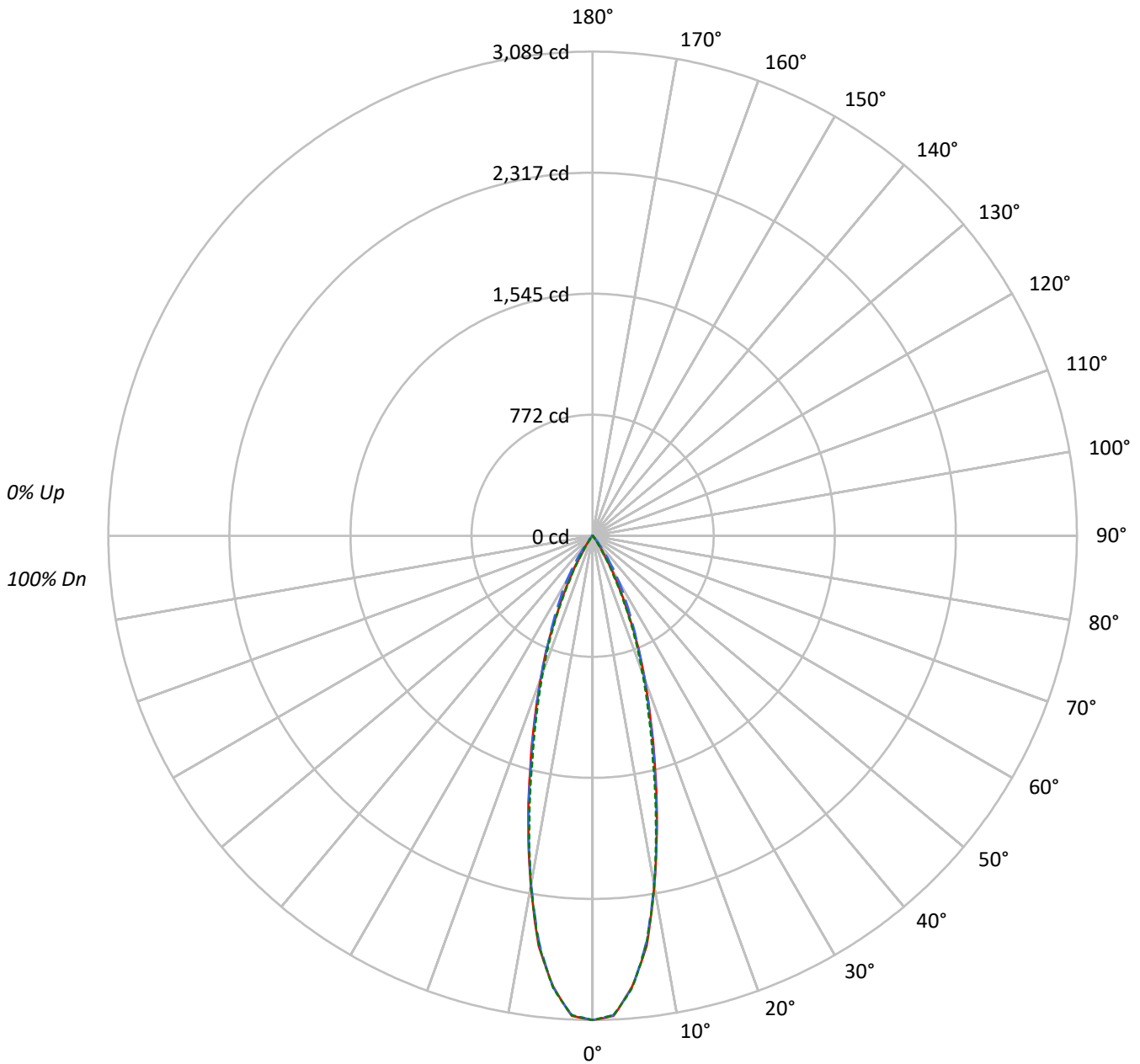
Input Watts (W): 13.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P886569

CATALOG NUMBER: ML310LSFL95FS1E-TIR4D25NFL-TL3SDMB-850LM-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P886569

CATALOG NUMBER: ML310LSFL95FS1E-TIR4D25NFL-TL3SDMB-850LM-3500K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	532047	532047	532047
5°	499106	500126	500627
10°	396399	394528	396224
15°	274454	271851	264398
20°	176971	176971	169475
25°	97560	109949	92752
30°	41185	64194	35776
35°	12888	27605	10638
40°	2630	9847	2630
45°	950	2363	950
50°	268	777	268
55°	0	300	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: 2363 cd/sqm



TEST NUMBER: P886569

CATALOG NUMBER: ML310LSFL95FS1E-TIR4D25NFL-TL3SDMB-850LM-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.0	25.6
10°-20°	422.1	42.1
20°-30°	252.9	25.2
30°-40°	64.0	6.4
40°-50°	6.3	0.6
50°-60°	0.5	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°	931.1	92.9
0°-40°	995.0	99.3
0°-60°	1001.9	100.0
0°-90°	1001.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1001.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3089	3089	3089	3089	3089	
5°	2887	2898	2893	2893	2896	256
15°	1539	1531	1525	1514	1483	426
25°	513	557	579	542	488	242
35°	61	88	131	77	51	47
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	



TEST NUMBER: P886569

CATALOG NUMBER: ML310LSFL95FS1E-TIR4D25NFL-TL3SDMB-850LM-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3089.3	3089.3	3089.3	3089.3	3089.3
2.5°	3066.0	3059.2	3061.1	3059.2	3060.1
5°	2887.0	2897.7	2892.9	2892.9	2895.8
7.5°	2638.1	2621.6	2618.7	2617.7	2627.4
10°	2266.7	2277.4	2256.0	2261.8	2265.7
12.5°	1893.3	1890.3	1888.4	1878.7	1865.1
15°	1539.3	1530.6	1524.7	1514.0	1482.9
17.5°	1229.1	1228.1	1215.5	1195.1	1183.4
20°	965.6	970.5	965.6	945.2	924.7
22.5°	740.0	763.3	744.9	737.1	705.0
25°	513.4	557.2	578.6	541.6	488.1
27.5°	340.3	387.0	441.5	365.6	312.1
30°	207.1	248.0	322.8	232.4	179.9
32.5°	117.7	153.6	219.8	140.0	99.2
35°	61.3	87.5	131.3	76.8	50.6
37.5°	25.3	43.8	75.8	37.9	22.4
40°	11.7	18.5	43.8	17.5	11.7
42.5°	6.8	8.8	22.4	8.8	6.8
45°	3.9	5.8	9.7	5.8	3.9
47.5°	2.9	2.9	4.9	2.9	2.9
50°	1.0	1.9	2.9	1.9	1.0
52.5°	1.0	1.0	1.9	1.0	1.0
55°	0.0	0.0	1.0	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)