

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: P886567

Luminaire Tested: ML310LSFL95FS1E-TIR4D25NFL-TL3SDMB-850LM-2700K

Issue Date: 7/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P886567
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-2700K
Description: 3IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 937.0 lumens
Efficiency: N/A
Efficacy: 68.9 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

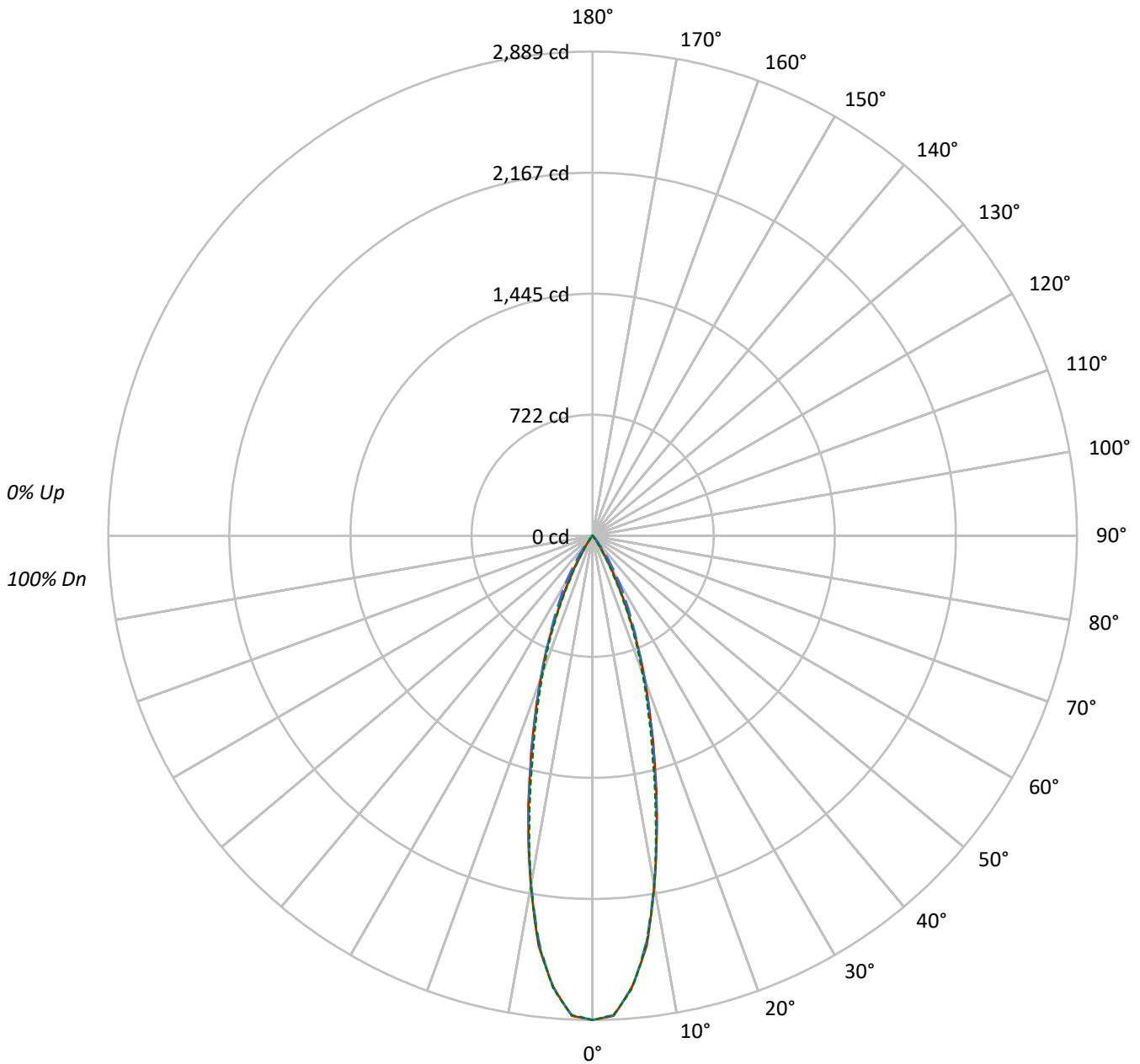
Input Watts (W): 13.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P886567

CATALOG NUMBER: ML310LSFL95FS1E-TIR4D25NFL-TL3SDMB-850LM-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P886567

CATALOG NUMBER: ML310LSFL95FS1E-TIR4D25NFL-TL3SDMB-850LM-2700K

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°	497568	497568	497568
5°	466777	467711	468195
10°	370709	368961	370552
15°	256678	254235	247264
20°	165498	165498	158497
25°	91251	102823	86747
30°	38520	60038	33449
35°	12047	25818	9945
40°	2451	9195	2451
45°	877	2216	877
50°	241	723	241
55°	0	270	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: 2216 cd/sqm



TEST NUMBER: P886567

CATALOG NUMBER: ML310LSFL95FS1E-TIR4D25NFL-TL3SDMB-850LM-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.4	25.6
10°-20°	394.8	42.1
20°-30°	236.5	25.2
30°-40°	59.8	6.4
40°-50°	5.9	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°	870.7	92.9
0°-40°	930.5	99.3
0°-60°	937.0	100.0
0°-90°	937.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	937.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2889	2889	2889	2889	2889	
5°	2700	2710	2705	2705	2708	240
15°	1440	1431	1426	1416	1387	398
25°	480	521	541	506	456	226
35°	57	82	123	72	47	44
45°	4	6	9	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: P886567

CATALOG NUMBER: ML310LSFL95FS1E-TIR4D25NFL-TL3SDMB-850LM-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2889.1	2889.1	2889.1	2889.1	2889.1
2.5°	2867.3	2860.9	2862.7	2860.9	2861.8
5°	2700.0	2710.0	2705.4	2705.4	2708.2
7.5°	2467.2	2451.7	2449.0	2448.1	2457.2
10°	2119.8	2129.8	2109.8	2115.2	2118.9
12.5°	1770.6	1767.8	1766.0	1756.9	1744.2
15°	1439.6	1431.4	1425.9	1415.9	1386.8
17.5°	1149.5	1148.6	1136.7	1117.6	1106.7
20°	903.0	907.6	903.0	883.9	864.8
22.5°	692.0	713.9	696.6	689.3	659.3
25°	480.2	521.1	541.1	506.5	456.5
27.5°	318.3	361.9	412.9	341.9	291.9
30°	193.7	231.9	301.9	217.3	168.2
32.5°	110.0	143.7	205.5	131.0	92.8
35°	57.3	81.8	122.8	71.8	47.3
37.5°	23.6	40.9	70.9	35.5	20.9
40°	10.9	17.3	40.9	16.4	10.9
42.5°	6.4	8.2	20.9	8.2	6.4
45°	3.6	5.5	9.1	5.5	3.6
47.5°	2.7	2.7	4.5	2.7	2.7
50°	0.9	1.8	2.7	1.8	0.9
52.5°	0.9	0.9	1.8	0.9	0.9
55°	0.0	0.0	0.9	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)