

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: P886782

Luminaire Tested: ML310LSFLD2W1E-TIR4D25AWW-TL3SWSL-600LM-2700K

Issue Date: 7/8/2024

Test Information

Test Method: LM-79-2019
Report Number: P886782
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML310LSFLD2W1E-TIR4D25AWW-TL3SWSL-600LM-2700K
Description: 3IN SQUARE ML FLEX, SELECTABLE CCT, WITH WW TIR, METALLIC SILVER TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT
Ballast/Driver: -

Summary

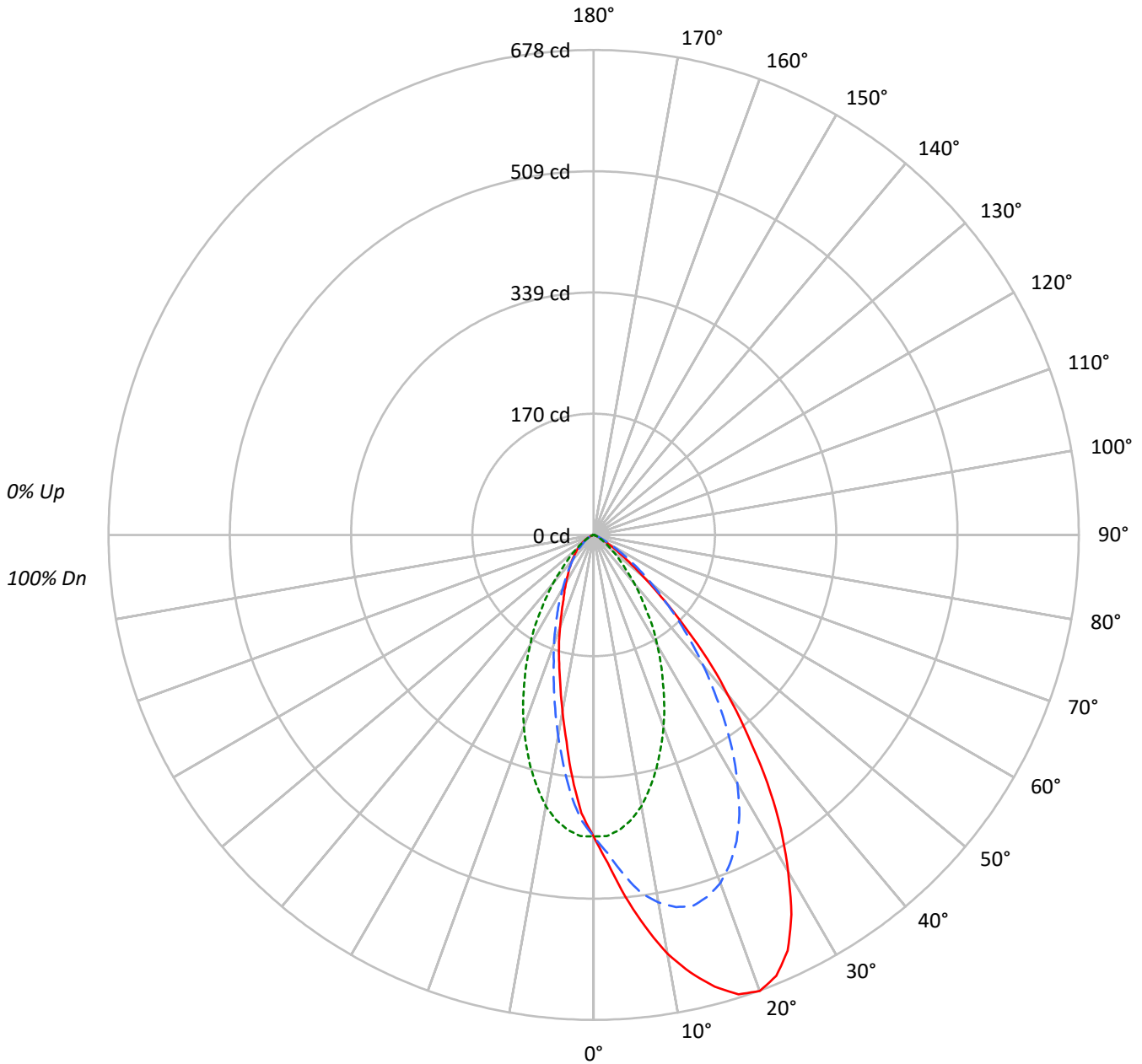
Lumens per Lamp: N/A
Luminaire Lumens: 506.0 lumens
Efficiency: N/A
Efficacy: 53.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 0.81 / 0.99
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 9.5
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: P886782
CATALOG NUMBER: ML310LSFLD2W1E-TIR4D25AWW-TL3SWSL-600LM-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P886782
 CATALOG NUMBER: ML310LSFLD2W1E-TIR4D25AWW-TL3SWSL-600LM-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	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92					92			
2	106	101	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83					83			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76					76			
4	94	85	79	74	92	84	78	73	82	77	72	80	75	72	78	74	71	69					69			
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63					63			
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	60	58					58			
7	78	68	61	56	77	67	60	56	66	60	56	64	59	55	63	58	55	53					53			
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49					49			
9	70	59	52	48	68	58	52	48	57	52	48	56	51	47	55	51	47	46					46			
10	66	55	49	44	65	55	49	44	54	48	44	53	48	44	52	47	44	42					42			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	72592	72592	72592	72592	72592
5°	87789	82239	71555	62963	58918
10°	104001	91235	67311	49911	43737
15°	116607	95710	60318	38298	33146
20°	124352	94918	52307	29672	25054
25°	121883	89788	43573	22746	18908
30°	108123	79944	35338	17043	15293
35°	89018	67299	26890	13119	12594
40°	65580	53687	19829	10207	10634
45°	42647	40041	13347	7672	8890
50°	24141	28026	9110	5734	7261
55°	12851	17775	6065	4534	5855
60°	6062	9541	4133	3479	4340
65°	3097	4890	3097	2323	2567
70°	1913	2216	1913	1259	1259
75°	865	865	865	865	399
80°	0	595	595	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 44961 cd/sqm



TEST NUMBER: P886782

CATALOG NUMBER: ML310LSFLD2W1E-TIR4D25AWW-TL3SWSL-600LM-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.5	7.8
10°-20°	105.8	20.9
20°-30°	135.8	26.8
30°-40°	117.1	23.1
40°-50°	69.4	13.7
50°-60°	28.4	5.6
60°-70°	8.5	1.7
70°-80°	1.5	0.3
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°	281.1	55.5
0°-40°	398.2	78.7
0°-60°	496.0	98.0
0°-90°	506.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	506.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	422	422	422	422	422	
5°	508	476	414	364	341	51
15°	654	537	338	215	186	185
25°	641	472	229	120	100	290
35°	423	320	128	62	60	261
45°	175	164	55	32	36	139
55°	43	59	20	15	20	41
65°	8	12	8	6	6	9
75°	1	1	1	1	1	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P886782

CATALOG NUMBER: ML310LSFLD2W1E-TIR4D25AWW-TL3SWSL-600LM-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	421.5	421.5	421.5	421.5	421.5	421.5	421.5	421.5	421.5
2.5°	459.3	455.5	445.4	432.8	421.5	407.6	398.8	393.8	389.4
5°	507.8	500.2	475.7	446.1	413.9	384.9	364.2	348.4	340.8
7.5°	552.5	538.0	504.7	451.7	402.0	360.4	323.8	301.2	291.1
10°	594.7	574.0	521.7	451.1	384.9	329.5	285.4	256.4	250.1
12.5°	626.9	604.2	533.0	444.2	362.3	300.5	248.2	224.3	214.8
15°	654.0	621.8	536.8	432.8	338.3	266.5	214.8	191.5	185.9
17.5°	673.5	631.3	529.9	415.8	311.9	236.3	185.2	166.3	161.3
20°	678.5	632.5	517.9	393.1	285.4	207.3	161.9	141.8	136.7
22.5°	667.2	619.9	497.7	366.7	257.7	180.2	139.2	121.6	116.6
25°	641.4	592.2	472.5	337.7	229.3	155.6	119.7	103.3	99.5
27.5°	598.5	556.9	441.0	306.8	203.5	132.3	102.1	88.8	88.2
30°	543.7	506.5	402.0	276.6	177.7	113.4	85.7	77.5	76.9
32.5°	487.0	457.4	362.9	245.1	154.4	97.0	73.1	68.0	68.0
35°	423.4	403.2	320.1	211.7	127.9	80.6	62.4	59.2	59.9
37.5°	354.1	342.1	277.2	180.2	107.1	66.2	52.9	51.0	52.9
40°	291.7	287.3	238.8	149.9	88.2	54.8	45.4	44.7	47.3
42.5°	235.6	231.2	199.1	124.7	69.3	44.1	37.2	39.7	41.6
45°	175.1	184.6	164.4	98.3	54.8	34.7	31.5	35.3	36.5
47.5°	127.9	139.2	131.0	75.6	44.7	29.0	25.8	30.9	31.5
50°	90.1	102.7	104.6	59.2	34.0	23.3	21.4	26.5	27.1
52.5°	62.4	73.1	81.3	44.7	25.8	18.3	18.3	22.7	22.7
55°	42.8	52.9	59.2	31.5	20.2	13.9	15.1	18.9	19.5
57.5°	27.7	35.9	41.6	23.3	14.5	10.7	12.6	15.1	15.8
60°	17.6	23.9	27.7	16.4	12.0	9.5	10.1	12.0	12.6
62.5°	12.0	16.4	17.6	12.0	8.8	7.6	7.6	9.5	9.5
65°	7.6	10.7	12.0	9.5	7.6	5.7	5.7	6.9	6.3
67.5°	5.0	6.3	7.6	6.9	5.7	4.4	3.8	4.4	3.8
70°	3.8	3.8	4.4	5.0	3.8	3.2	2.5	3.2	2.5
72.5°	2.5	1.9	2.5	3.2	2.5	2.5	1.9	1.3	1.3
75°	1.3	1.3	1.3	1.9	1.3	1.3	1.3	0.6	0.6
77.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0
80°	0.0	0.0	0.6	0.0	0.6	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	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)