

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: P886795

Luminaire Tested: ML310LSFLD2W1E-TIR4D25NFL-TL3SDSL-600LM-3000K

Issue Date: 7/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P886795
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML310LSFLD2W1E-TIR4D25NFL-TL3SDSL-600LM-3000K
Description: 3IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 735.8 lumens
Efficiency: N/A
Efficacy: 77.5 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

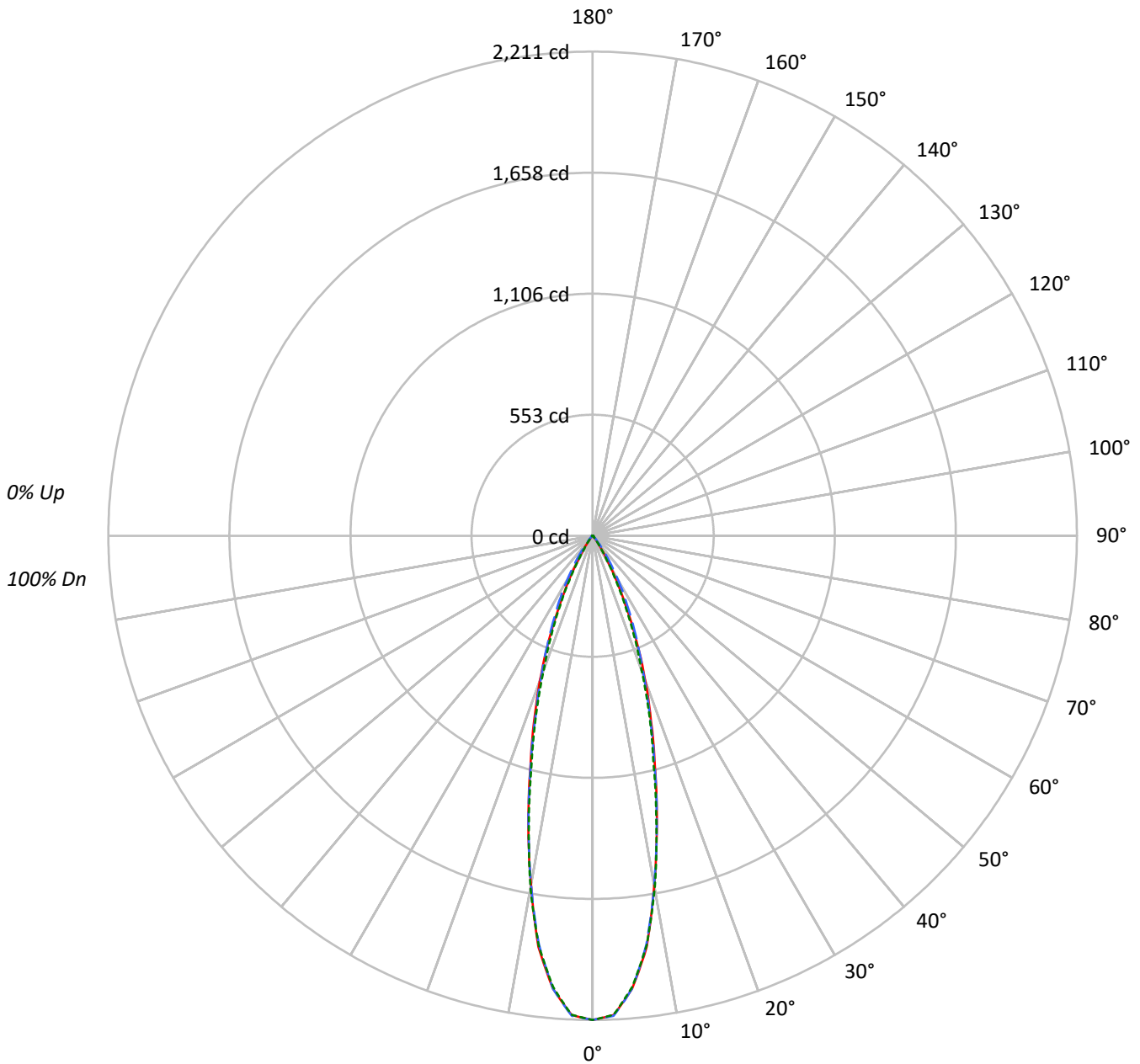
Input Watts (W): 9.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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					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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95								
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91								
3	106	101	97	93	104	99	96	93	97	94	91	94	92	90	92	90	88	87								
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83								
5	98	92	87	84	97	91	86	83	89	85	82	88	84	82	86	83	81	80								
6	95	88	83	80	94	87	83	79	86	82	79	84	81	78	83	80	78	77								
7	92	84	79	76	90	84	79	76	82	78	76	81	78	75	80	77	75	74								
8	88	81	76	73	87	80	76	73	79	75	73	79	75	72	78	74	72	71								
9	86	78	73	70	85	78	73	70	77	73	70	76	72	70	75	72	69	68								
10	83	75	71	68	82	75	70	67	74	70	67	73	70	67	73	69	67	66								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	380767	380767	380767
5°	358883	358883	357586
10°	283427	283077	285788
15°	196253	195183	191563
20°	128476	125617	119551
25°	70956	78785	66737
30°	30486	45401	27941
35°	10071	21298	9230
40°	3192	7891	3485
45°	1973	3118	2143
50°	1634	1822	1634
55°	1411	1621	1411
60°	1412	1412	1412
65°	1100	1386	1386
70°	1007	1360	1360
75°	932	1331	1331
80°	694	1389	1389
85°	1383	1383	1383

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 3118 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.5	24.9
10°-20°	302.5	41.1
20°-30°	181.4	24.7
30°-40°	49.2	6.7
40°-50°	8.8	1.2
50°-60°	4.4	0.6
60°-70°	3.3	0.4
70°-80°	2.1	0.3
80°-90°	0.8	0.1
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°	667.4	90.7
0°-40°	716.6	97.4
0°-60°	729.7	99.2
0°-90°	735.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	735.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2211	2211	2211	2211	2211	
5°	2076	2078	2076	2073	2068	184
15°	1101	1098	1095	1081	1074	306
25°	373	398	415	378	351	175
35°	48	67	101	61	44	37
45°	8	9	13	10	9	7
55°	5	5	5	5	5	4
65°	3	3	3	3	3	3
75°	1	2	2	2	2	2
85°	1	1	1	1	1	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2210.9	2210.9	2210.9	2210.9	2210.9
2.5°	2191.3	2192.7	2194.0	2191.3	2190.0
5°	2075.9	2077.9	2075.9	2073.2	2068.4
7.5°	1893.5	1881.4	1881.4	1868.5	1886.1
10°	1620.7	1628.8	1618.7	1620.7	1634.2
12.5°	1355.3	1345.9	1353.3	1340.5	1345.2
15°	1100.7	1098.0	1094.7	1081.1	1074.4
17.5°	888.0	873.8	870.5	859.7	859.7
20°	701.0	702.3	685.4	673.9	652.3
22.5°	530.1	546.3	538.9	519.3	494.3
25°	373.4	398.4	414.6	378.2	351.2
27.5°	250.5	276.2	316.7	270.1	230.3
30°	153.3	179.6	228.3	172.9	140.5
32.5°	89.8	115.5	156.7	106.0	79.0
35°	47.9	66.9	101.3	60.8	43.9
37.5°	24.3	36.5	59.4	34.4	25.7
40°	14.2	18.9	35.1	20.3	15.5
42.5°	10.1	11.5	21.6	12.8	11.5
45°	8.1	8.8	12.8	9.5	8.8
47.5°	6.8	7.4	8.8	7.4	7.4
50°	6.1	6.1	6.8	6.1	6.1
52.5°	4.7	5.4	6.1	5.4	5.4
55°	4.7	4.7	5.4	4.7	4.7
57.5°	4.1	4.1	4.7	4.1	4.1
60°	4.1	4.1	4.1	4.1	4.1
62.5°	3.4	3.4	4.1	3.4	3.4
65°	2.7	3.4	3.4	3.4	3.4
67.5°	2.7	2.7	3.4	3.4	2.7
70°	2.0	2.7	2.7	2.7	2.7
72.5°	2.0	2.0	2.7	2.7	2.0
75°	1.4	2.0	2.0	2.0	2.0
77.5°	1.4	1.4	1.4	2.0	1.4
80°	0.7	1.4	1.4	1.4	1.4
82.5°	0.7	0.7	0.7	1.4	1.4
85°	0.7	0.7	0.7	0.7	0.7
87.5°	0.0	0.0	0.7	0.7	0.7
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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