

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: P886794

Luminaire Tested: ML310LSFLD2W1E-TIR4D25NFL-TL3SDSL-600LM-2700K

Issue Date: 7/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P886794
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-2700K
Description: 3IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 685.8 lumens
Efficiency: N/A
Efficacy: 72.2 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')

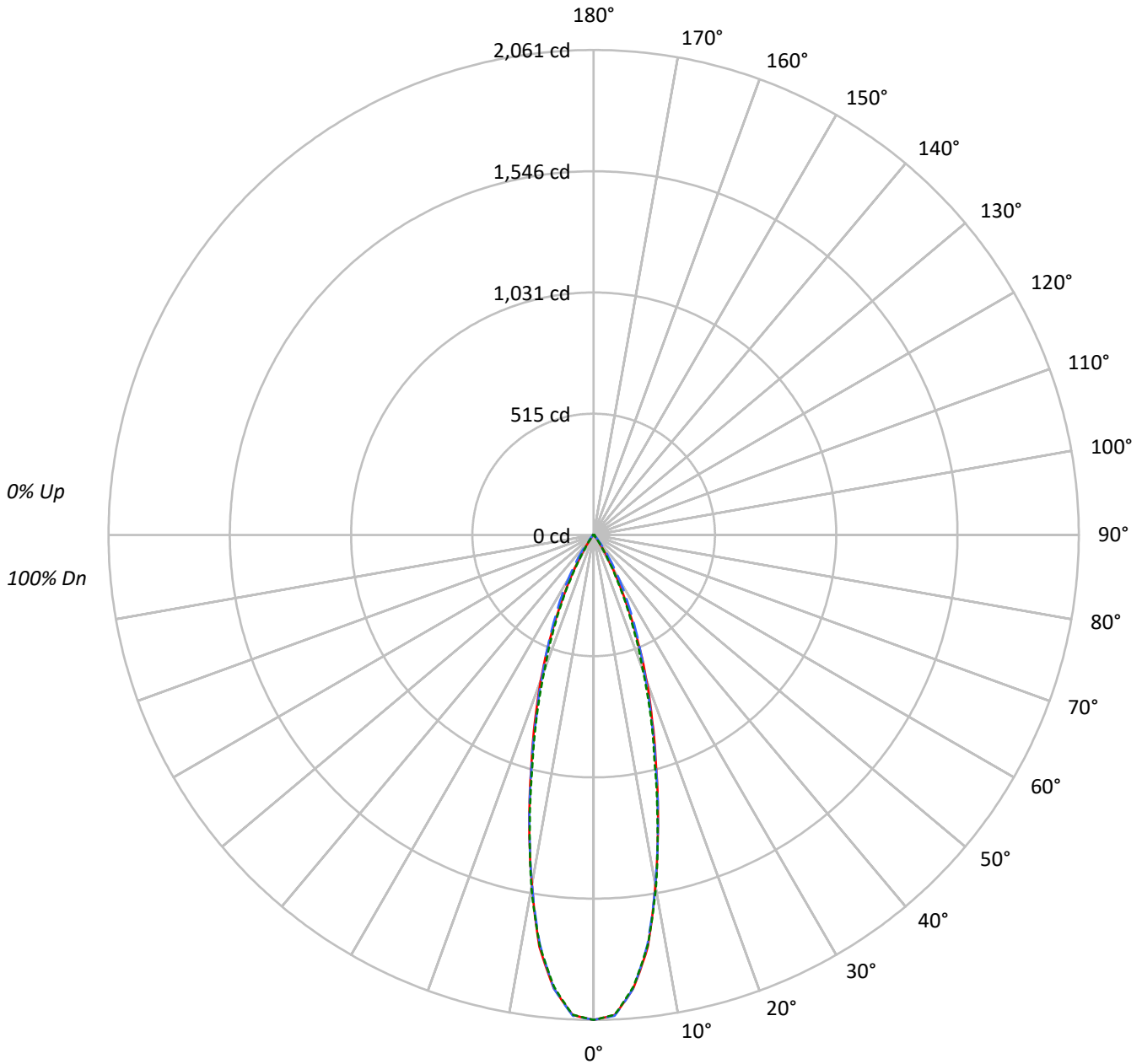
CIE Type: Direct

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



TEST NUMBER: P886794
CATALOG NUMBER: ML310LSFLD2W1E-TIR4D25NFL-TL3SDSL-600LM-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P886794

CATALOG NUMBER: ML310LSFLD2W1E-TIR4D25NFL-TL3SDSL-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	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°	354934	354934	354934
5°	334524	334524	333331
10°	264190	263876	266394
15°	182934	181935	178565
20°	119752	117095	111450
25°	66148	73445	62196
30°	28418	42319	26032
35°	9398	19847	8599
40°	2968	7352	3260
45°	1851	2923	1997
50°	1527	1688	1527
55°	1321	1501	1321
60°	1309	1309	1309
65°	1019	1263	1263
70°	957	1259	1259
75°	865	1264	1264
80°	595	1289	1289
85°	1186	1186	1186

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 2923 cd/sqm



TEST NUMBER: P886794

CATALOG NUMBER: ML310LSFLD2W1E-TIR4D25NFL-TL3SDSL-600LM-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.1	24.9
10°-20°	282.0	41.1
20°-30°	169.1	24.7
30°-40°	45.8	6.7
40°-50°	8.2	1.2
50°-60°	4.1	0.6
60°-70°	3.0	0.4
70°-80°	1.9	0.3
80°-90°	0.7	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°	622.1	90.7
0°-40°	667.9	97.4
0°-60°	680.2	99.2
0°-90°	685.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	685.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2061	2061	2061	2061	2061	
5°	1935	1937	1935	1932	1928	171
15°	1026	1024	1020	1008	1002	285
25°	348	371	386	352	327	164
35°	45	62	94	57	41	34
45°	8	8	12	9	8	6
55°	4	4	5	4	4	4
65°	2	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	



TEST NUMBER: P886794

CATALOG NUMBER: ML310LSFLD2W1E-TIR4D25NFL-TL3SDSL-600LM-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2060.9	2060.9	2060.9	2060.9	2060.9
2.5°	2042.7	2043.9	2045.2	2042.7	2041.4
5°	1935.0	1936.9	1935.0	1932.5	1928.1
7.5°	1765.1	1753.7	1753.7	1741.8	1758.1
10°	1510.7	1518.3	1508.9	1510.7	1523.3
12.5°	1263.4	1254.5	1261.5	1249.5	1253.9
15°	1026.0	1023.5	1020.4	1007.8	1001.5
17.5°	827.8	814.5	811.4	801.3	801.3
20°	653.4	654.7	638.9	628.2	608.1
22.5°	494.1	509.2	502.3	484.1	460.8
25°	348.1	371.4	386.5	352.5	327.3
27.5°	233.5	257.5	295.2	251.8	214.7
30°	142.9	167.4	212.8	161.1	130.9
32.5°	83.7	107.6	146.0	98.8	73.6
35°	44.7	62.3	94.4	56.7	40.9
37.5°	22.7	34.0	55.4	32.1	23.9
40°	13.2	17.6	32.7	18.9	14.5
42.5°	9.4	10.7	20.1	12.0	10.7
45°	7.6	8.2	12.0	8.8	8.2
47.5°	6.3	6.9	8.2	6.9	6.9
50°	5.7	5.7	6.3	5.7	5.7
52.5°	4.4	5.0	5.7	5.0	5.0
55°	4.4	4.4	5.0	4.4	4.4
57.5°	3.8	3.8	4.4	3.8	3.8
60°	3.8	3.8	3.8	3.8	3.8
62.5°	3.1	3.1	3.8	3.1	3.1
65°	2.5	3.1	3.1	3.1	3.1
67.5°	2.5	2.5	3.1	3.1	2.5
70°	1.9	2.5	2.5	2.5	2.5
72.5°	1.9	1.9	2.5	2.5	1.9
75°	1.3	1.9	1.9	1.9	1.9
77.5°	1.3	1.3	1.3	1.9	1.3
80°	0.6	1.3	1.3	1.3	1.3
82.5°	0.6	0.6	0.6	1.3	1.3
85°	0.6	0.6	0.6	0.6	0.6
87.5°	0.0	0.0	0.6	0.6	0.6
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)