

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: P886790

Luminaire Tested: ML310LSFLD2W1E-TIR4D25NFL-TL3SDMB-600LM-2700K

Issue Date: 7/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P886790
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: ML310LSFLD2W1E-TIR4D25NFL-TL3SDMB-600LM-2700K
Description: 3IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 649.3 lumens
Efficiency: N/A
Efficacy: 68.4 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

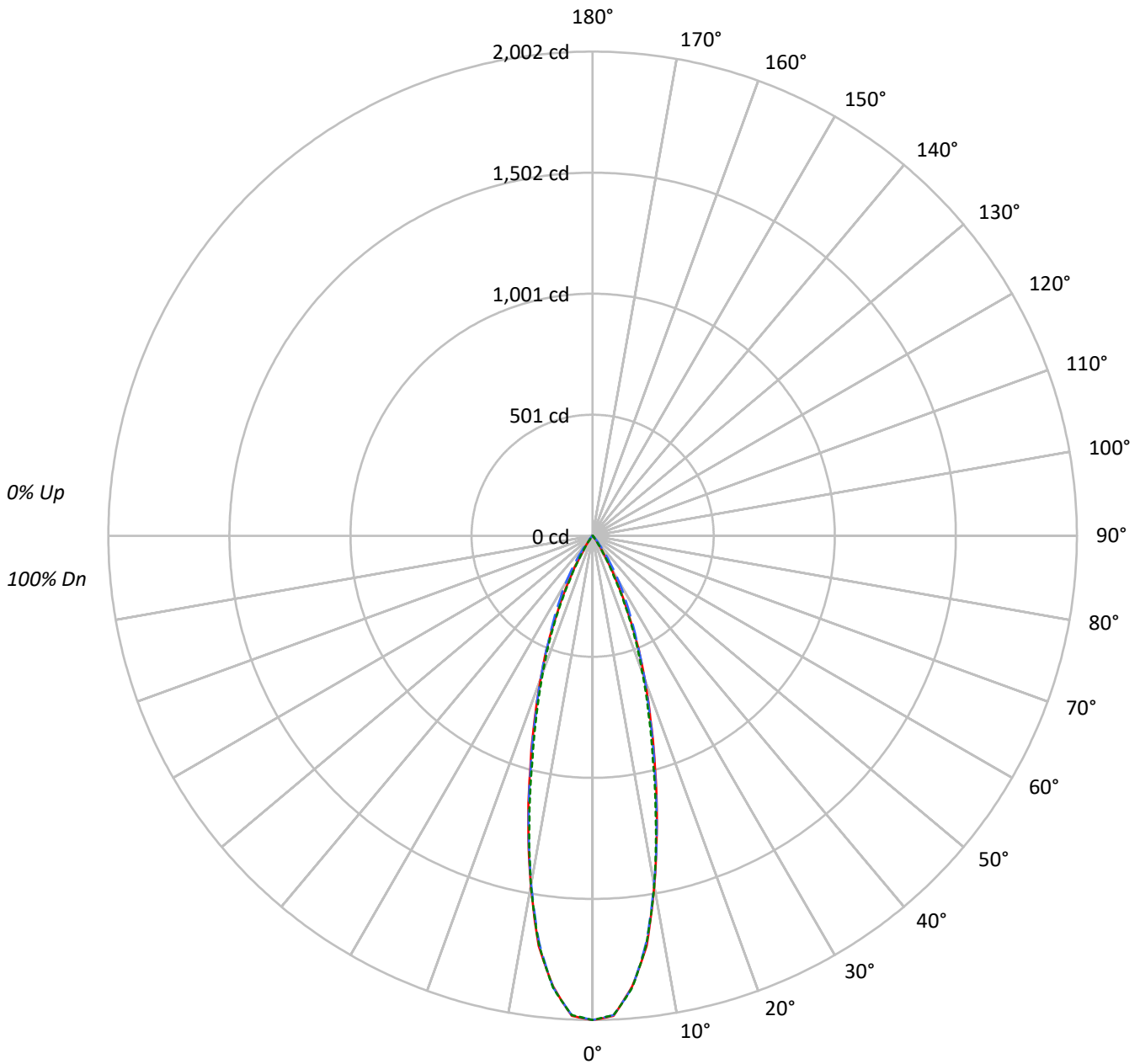
Input Watts (W): 9.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	344824	344824	344824
5°	323477	324134	324445
10°	256898	255691	256793
15°	177870	176194	171362
20°	114694	114694	109837
25°	63222	71260	60124
30°	26688	41603	23188
35°	8347	17892	6896
40°	1709	6385	1709
45°	609	1534	609
50°	161	509	161
55°	0	180	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: 1534 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.9	25.6
10°-20°	273.6	42.1
20°-30°	163.9	25.2
30°-40°	41.5	6.4
40°-50°	4.1	0.6
50°-60°	0.3	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°	603.4	92.9
0°-40°	644.9	99.3
0°-60°	649.3	100.0
0°-90°	649.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	649.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2002	2002	2002	2002	2002	
5°	1871	1878	1875	1875	1877	166
15°	998	992	988	981	961	276
25°	333	361	375	351	316	157
35°	40	57	85	50	33	30
45°	2	4	6	4	2	2
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2002.2	2002.2	2002.2	2002.2	2002.2
2.5°	1987.0	1982.6	1983.9	1982.6	1983.2
5°	1871.1	1878.0	1874.9	1874.9	1876.7
7.5°	1709.7	1699.0	1697.1	1696.5	1702.8
10°	1469.0	1475.9	1462.1	1465.9	1468.4
12.5°	1227.0	1225.1	1223.9	1217.6	1208.7
15°	997.6	991.9	988.2	981.2	961.1
17.5°	796.6	795.9	787.8	774.5	767.0
20°	625.8	628.9	625.8	612.6	599.3
22.5°	479.6	494.7	482.7	477.7	456.9
25°	332.7	361.1	375.0	351.0	316.4
27.5°	220.6	250.8	286.1	237.0	202.3
30°	134.2	160.7	209.2	150.6	116.6
32.5°	76.3	99.6	142.4	90.7	64.3
35°	39.7	56.7	85.1	49.8	32.8
37.5°	16.4	28.4	49.2	24.6	14.5
40°	7.6	12.0	28.4	11.3	7.6
42.5°	4.4	5.7	14.5	5.7	4.4
45°	2.5	3.8	6.3	3.8	2.5
47.5°	1.9	1.9	3.2	1.9	1.9
50°	0.6	1.3	1.9	1.3	0.6
52.5°	0.6	0.6	1.3	0.6	0.6
55°	0.0	0.0	0.6	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



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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