

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: P886814

Luminaire Tested: ML310LSFLD2W1E-TIR4D55WFL-TL3SDMB-600LM-2700K

Issue Date: 7/8/2024

Test Information

Test Method: LM-79-2019
Report Number: P886814
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML310LSFLD2W1E-TIR4D55WFL-TL3SDMB-600LM-2700K
Description: 3IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE BLACK TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 715.4 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Spacing Criteria (0/90/45): 0.87 / 0.86 / 0.82
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

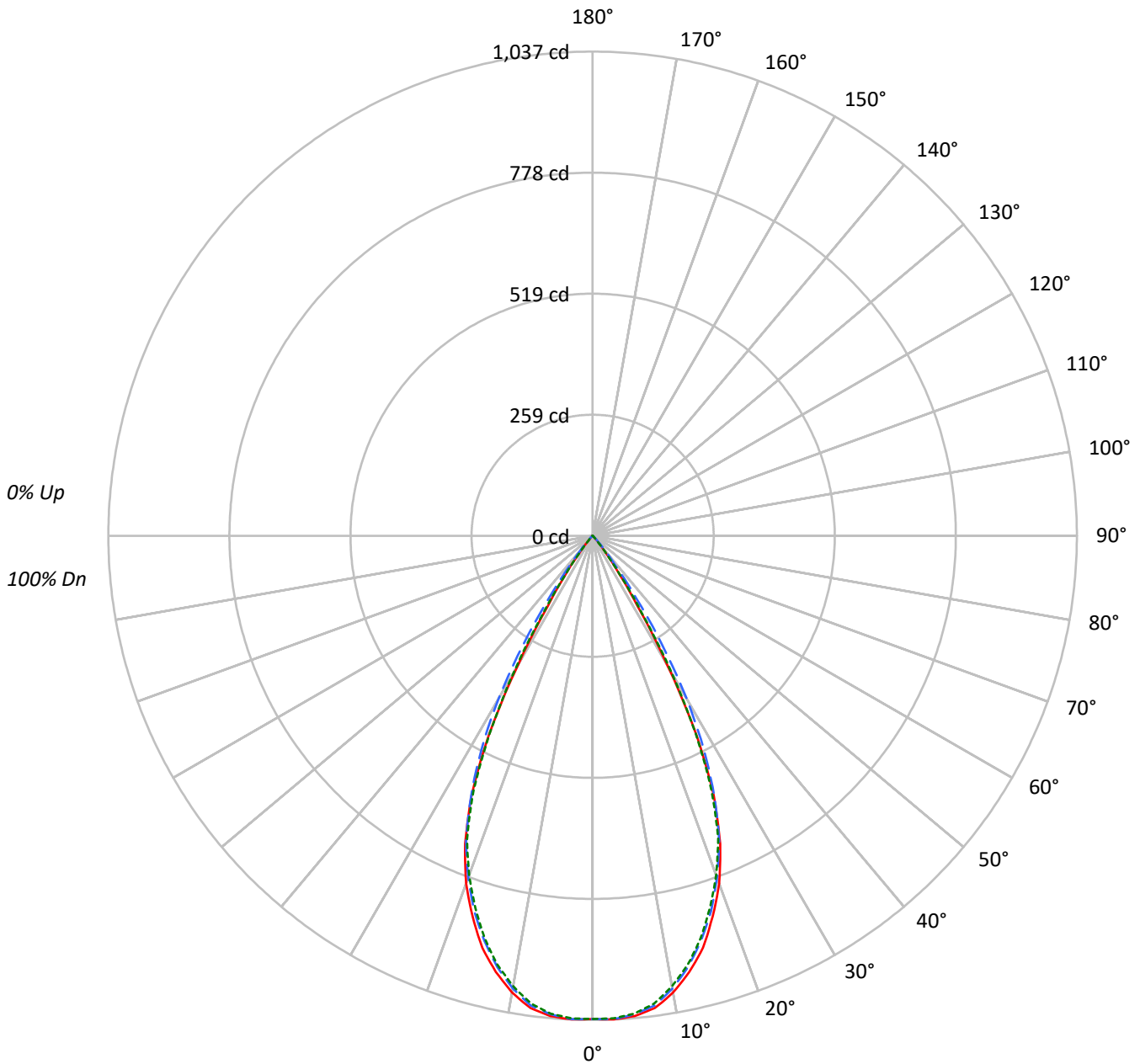
Input Watts (W): 9.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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								
1	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95								
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89								
3	104	99	94	91	103	97	93	90	95	91	89	92	90	87	90	88	86	84								
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80								
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75								
6	92	84	78	74	90	83	78	74	81	77	74	80	76	73	79	75	73	71								
7	88	79	74	70	86	79	74	70	77	73	70	76	72	69	75	72	69	68								
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64								
9	80	72	66	63	79	71	66	63	70	66	63	70	65	62	69	65	62	61								
10	77	68	63	60	76	68	63	60	67	63	60	67	62	59	66	62	59	58								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	178250	178250	178250
5°	178499	177842	177617
10°	173725	172186	171312
15°	162857	159933	159149
20°	145246	142698	141654
25°	116600	117189	114681
30°	63756	79924	67137
35°	20520	34039	21067
40°	4811	8363	3957
45°	463	2460	463
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: 2460 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.0	13.6
10°-20°	250.5	35.0
20°-30°	271.8	38.0
30°-40°	90.0	12.6
40°-50°	5.9	0.8
50°-60°	0.2	0.0
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°	619.3	86.6
0°-40°	709.3	99.1
0°-60°	715.4	100.0
0°-90°	715.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	715.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1035	1035	1035	1035	1035	
5°	1032	1031	1029	1028	1027	97
15°	913	908	897	894	893	253
25°	614	619	617	612	604	268
35°	98	108	162	109	100	74
45°	2	3	10	3	2	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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1035.0	1035.0	1035.0	1035.0	1035.0
2.5°	1036.9	1036.9	1036.3	1035.6	1034.4
5°	1032.5	1031.2	1028.7	1028.1	1027.4
7.5°	1020.5	1019.2	1014.8	1010.4	1010.4
10°	993.4	992.8	984.6	982.1	979.6
12.5°	956.9	954.4	945.5	942.4	941.1
15°	913.4	907.7	897.0	894.5	892.6
17.5°	854.8	852.3	842.9	838.5	835.3
20°	792.5	786.8	778.6	775.5	772.9
22.5°	713.7	710.6	708.1	706.2	702.4
25°	613.6	619.2	616.7	612.3	603.5
27.5°	483.2	507.1	515.9	502.7	477.5
30°	320.6	371.0	401.9	363.5	337.6
32.5°	178.9	209.8	277.8	222.4	196.5
35°	97.6	107.7	161.9	109.0	100.2
37.5°	47.2	54.8	80.6	52.3	47.9
40°	21.4	25.8	37.2	24.6	17.6
42.5°	6.3	11.3	19.5	8.8	5.7
45°	1.9	3.1	10.1	3.1	1.9
47.5°	1.3	1.3	4.4	1.3	1.3
50°	0.6	0.6	1.9	0.6	0.6
52.5°	0.0	0.6	0.6	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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