

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: P886803

Luminaire Tested: ML310LSFLD2W1E-TIR4D40FL-TL3SDMB-600LM-3000K

Issue Date: 7/8/2024

Test Information

Test Method: LM-79-2019
Report Number: P886803
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML310LSFLD2W1E-TIR4D40FL-TL3SDMB-600LM-3000K
Description: 3IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE BLACK TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT
Ballast/Driver: -

Summary

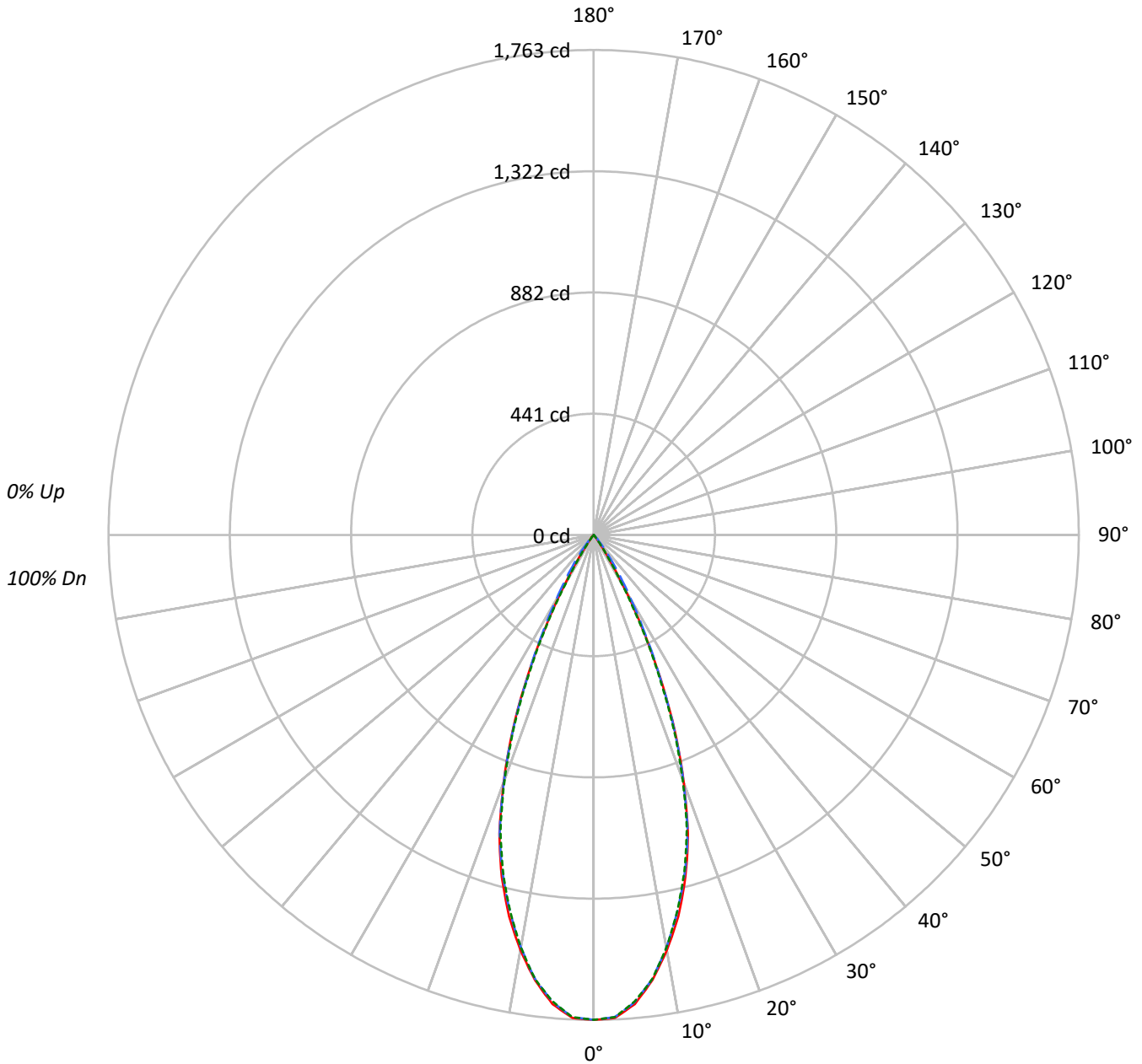
Lumens per Lamp: N/A
Luminaire Lumens: 826.3 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.65
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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									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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95						95													
2	110	106	103	100	108	104	101	99	101	99	97	98	96	94	96	94	93	91						91													
3	106	100	96	93	104	99	95	92	97	94	91	94	92	90	92	90	88	87						87													
4	102	96	91	88	100	94	90	87	92	89	86	91	88	85	89	86	84	83						83													
5	98	91	86	83	96	90	86	82	88	85	82	87	84	81	85	83	80	79						79													
6	94	87	82	79	93	86	82	78	85	81	78	84	80	77	82	79	77	76						76													
7	91	83	78	75	90	83	78	75	81	77	74	80	77	74	79	76	74	72						72													
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69						69													
9	84	76	72	68	83	76	71	68	75	71	68	74	71	68	74	70	68	66						66													
10	81	73	69	65	80	73	68	65	72	68	65	72	68	65	71	67	65	64						64													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	303594	303594	303594
5°	295989	294709	294346
10°	267950	266306	266306
15°	229790	227615	226545
20°	175230	174863	173250
25°	108581	107935	105104
30°	44248	54052	39256
35°	9251	23316	8389
40°	2271	7149	2271
45°	487	1973	658
50°	188	536	188
55°	0	210	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: 1973 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.1	19.0
10°-20°	350.5	42.4
20°-30°	258.9	31.3
30°-40°	55.0	6.7
40°-50°	4.6	0.6
50°-60°	0.3	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°	766.5	92.8
0°-40°	821.5	99.4
0°-60°	826.3	100.0
0°-90°	826.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	826.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1763	1763	1763	1763	1763	
5°	1712	1707	1705	1704	1703	158
15°	1289	1288	1277	1273	1271	353
25°	571	575	568	567	553	257
35°	44	64	111	58	40	42
45°	2	3	8	3	3	3
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°	1762.8	1762.8	1762.8	1762.8	1762.8
2.5°	1758.1	1756.7	1754.7	1754.7	1754.7
5°	1712.1	1707.4	1704.7	1704.0	1702.6
7.5°	1633.0	1627.6	1628.9	1628.9	1628.9
10°	1532.2	1525.5	1522.8	1522.8	1522.8
12.5°	1420.7	1421.3	1403.8	1403.8	1401.1
15°	1288.8	1288.1	1276.6	1272.6	1270.6
17.5°	1139.4	1138.7	1136.0	1125.9	1125.2
20°	956.1	959.5	954.1	947.3	945.3
22.5°	770.9	767.5	765.4	765.4	756.0
25°	571.4	574.8	568.0	567.3	553.1
27.5°	381.4	405.7	402.3	385.4	368.5
30°	222.5	250.2	271.8	231.9	197.4
32.5°	104.1	132.5	179.2	124.4	95.3
35°	44.0	63.6	110.9	58.2	39.9
37.5°	21.0	29.1	62.2	27.7	18.9
40°	10.1	14.2	31.8	14.2	10.1
42.5°	5.4	7.4	16.2	6.8	5.4
45°	2.0	3.4	8.1	3.4	2.7
47.5°	1.4	1.4	3.4	1.4	1.4
50°	0.7	0.7	2.0	0.7	0.7
52.5°	0.0	0.7	0.7	0.7	0.0
55°	0.0	0.0	0.7	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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