

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: P886806

Luminaire Tested: ML310LSFLD2W1E-TIR4D40FL-TL3SDSL-600LM-2700K

Issue Date: 7/8/2024

Test Information

Test Method: LM-79-2019
Report Number: P886806
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML310LSFLD2W1E-TIR4D40FL-TL3SDSL-600LM-2700K
Description: 3IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3500K CCT
Ballast/Driver: -

Summary

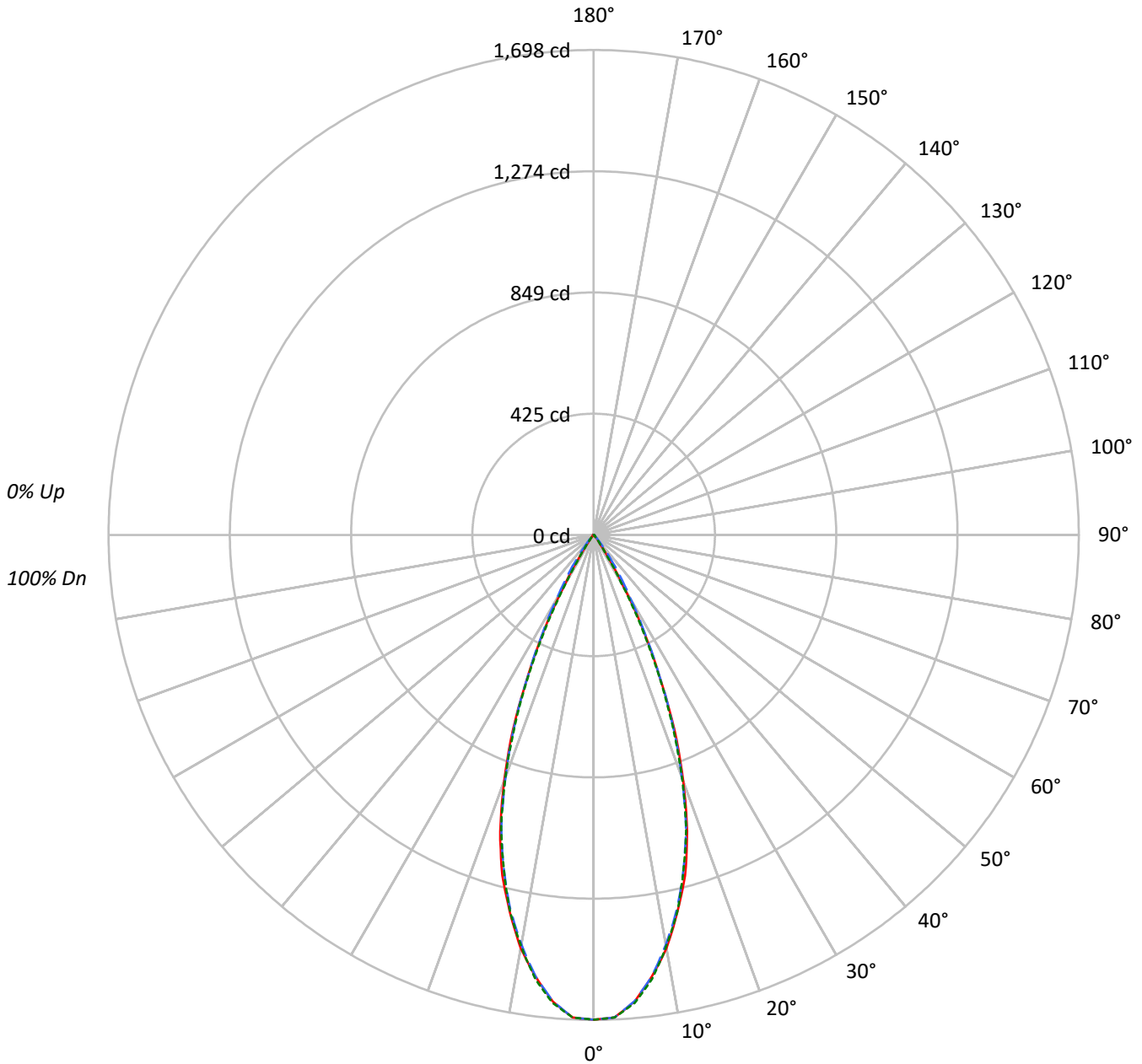
Lumens per Lamp: N/A
Luminaire Lumens: 799.9 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.67 / 0.65
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	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	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91																			
3	105	100	96	93	104	99	95	92	96	93	90	94	91	89	92	89	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	84	82																			
5	97	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	78																			
6	94	86	81	78	92	86	81	78	84	80	77	83	79	77	82	79	76	75																			
7	90	83	78	74	89	82	77	74	81	77	74	80	76	73	79	75	73	72																			
8	87	79	74	71	86	79	74	71	78	73	70	77	73	70	76	72	70	69																			
9	84	76	71	68	83	75	71	68	74	70	67	74	70	67	73	69	67	66																			
10	81	73	68	65	80	72	68	65	72	67	65	71	67	64	70	67	64	63																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	292348	292348	292348
5°	283559	283334	284423
10°	256968	254659	255761
15°	220305	216489	216596
20°	167789	165479	165828
25°	103222	103565	101303
30°	41981	51506	38341
35°	8998	22791	8620
40°	2968	7374	3125
45°	1388	2606	1388
50°	1018	1340	1018
55°	961	1141	961
60°	861	1102	861
65°	774	1019	1019
70°	957	957	957
75°	865	865	865
80°	595	595	1289
85°	1186	1186	1186

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 2606 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.8	18.9
10°-20°	334.7	41.8
20°-30°	247.2	30.9
30°-40°	53.2	6.6
40°-50°	6.8	0.9
50°-60°	3.1	0.4
60°-70°	2.3	0.3
70°-80°	1.5	0.2
80°-90°	0.4	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°	732.6	91.6
0°-40°	785.8	98.2
0°-60°	795.6	99.5
0°-90°	799.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	799.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1698	1698	1698	1698	1698	
5°	1640	1639	1639	1638	1645	151
15°	1236	1224	1214	1218	1215	337
25°	543	550	545	542	533	248
35°	43	62	108	55	41	42
45°	6	6	11	6	6	5
55°	3	3	4	3	3	3
65°	2	2	2	2	2	2
75°	1	1	1	1	1	1
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°	1697.5	1697.5	1697.5	1697.5	1697.5
2.5°	1690.6	1689.9	1690.6	1691.2	1690.6
5°	1640.2	1638.9	1638.9	1638.3	1645.2
7.5°	1559.5	1560.1	1558.9	1563.3	1567.7
10°	1469.4	1458.1	1456.2	1464.4	1462.5
12.5°	1353.5	1354.1	1344.6	1347.2	1351.6
15°	1235.6	1224.3	1214.2	1218.0	1214.8
17.5°	1088.2	1082.5	1074.3	1075.0	1076.8
20°	915.5	916.8	902.9	908.0	904.8
22.5°	739.7	730.9	727.8	722.1	718.9
25°	543.2	550.1	545.0	542.5	533.1
27.5°	378.1	379.3	385.6	372.4	352.2
30°	211.1	235.0	259.0	223.1	192.8
32.5°	101.4	126.0	172.6	116.6	89.5
35°	42.8	61.8	108.4	54.8	41.0
37.5°	22.7	29.6	60.5	27.7	21.4
40°	13.2	16.4	32.8	16.4	13.9
42.5°	7.6	10.1	18.3	10.1	8.2
45°	5.7	6.3	10.7	6.3	5.7
47.5°	4.4	5.0	6.3	5.0	4.4
50°	3.8	3.8	5.0	3.8	3.8
52.5°	3.2	3.8	3.8	3.8	3.8
55°	3.2	3.2	3.8	3.2	3.2
57.5°	3.2	3.2	3.2	3.2	3.2
60°	2.5	2.5	3.2	3.2	2.5
62.5°	2.5	2.5	2.5	2.5	2.5
65°	1.9	2.5	2.5	2.5	2.5
67.5°	1.9	1.9	2.5	1.9	1.9
70°	1.9	1.9	1.9	1.9	1.9
72.5°	1.3	1.3	1.9	1.9	1.9
75°	1.3	1.3	1.3	1.3	1.3
77.5°	0.6	1.3	1.3	1.3	1.3
80°	0.6	0.6	0.6	1.3	1.3
82.5°	0.6	0.6	0.6	0.6	0.6
85°	0.6	0.6	0.6	0.6	0.6
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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