

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: P886802

Luminaire Tested: ML310LSFLD2W1E-TIR4D40FL-TL3SDMB-600LM-2700K

Issue Date: 7/8/2024

Test Information

Test Method: LM-79-2019
Report Number: P886802
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-2700K
Description: 3IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE BLACK TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 770.2 lumens
Efficiency: N/A
Efficacy: 81.1 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

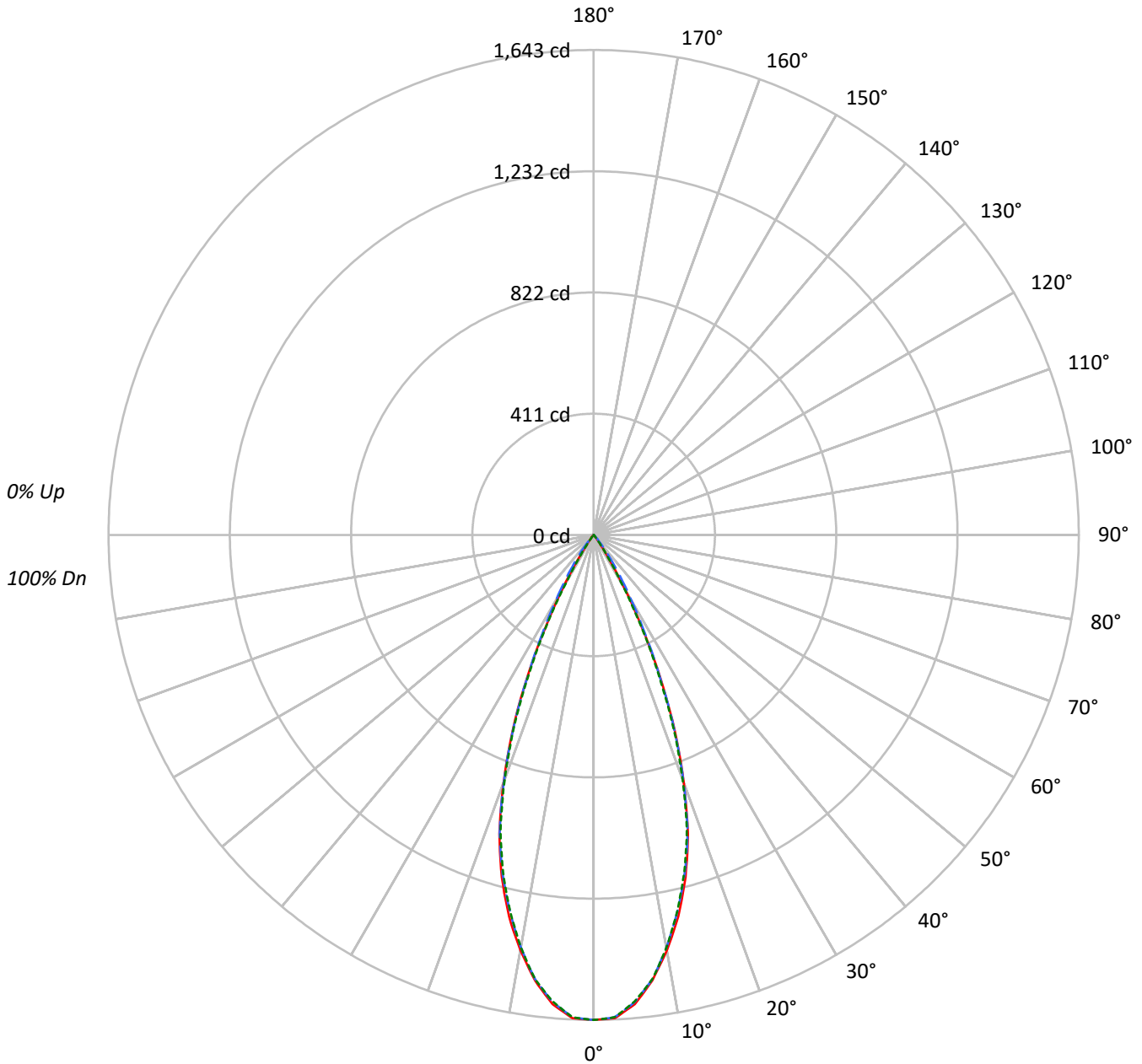
Input Watts (W): 9.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	282996	282996	282996
5°	275900	274707	274379
10°	249780	248241	248241
15°	214207	212175	211176
20°	163353	163005	161502
25°	101208	100619	97978
30°	41245	50393	36611
35°	8620	21739	7821
40°	2136	6655	2136
45°	463	1851	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: 1851 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.4	19.0
10°-20°	326.7	42.4
20°-30°	241.4	31.3
30°-40°	51.2	6.7
40°-50°	4.3	0.6
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°	714.5	92.8
0°-40°	765.7	99.4
0°-60°	770.2	100.0
0°-90°	770.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	770.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1643	1643	1643	1643	1643	
5°	1596	1592	1589	1588	1587	147
15°	1201	1201	1190	1186	1184	329
25°	533	536	530	529	516	240
35°	41	59	103	54	37	40
45°	2	3	8	3	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°	1643.2	1643.2	1643.2	1643.2	1643.2
2.5°	1638.8	1637.5	1635.7	1635.7	1635.7
5°	1595.9	1591.5	1589.0	1588.4	1587.1
7.5°	1522.2	1517.2	1518.4	1518.4	1518.4
10°	1428.3	1422.0	1419.5	1419.5	1419.5
12.5°	1324.3	1324.9	1308.5	1308.5	1306.0
15°	1201.4	1200.7	1190.0	1186.2	1184.4
17.5°	1062.1	1061.4	1058.9	1049.5	1048.8
20°	891.3	894.4	889.4	883.1	881.2
22.5°	718.6	715.4	713.5	713.5	704.7
25°	532.6	535.8	529.5	528.8	515.6
27.5°	355.5	378.2	375.0	359.3	343.5
30°	207.4	233.2	253.4	216.2	184.1
32.5°	97.1	123.5	167.0	116.0	88.9
35°	41.0	59.2	103.4	54.2	37.2
37.5°	19.5	27.1	58.0	25.8	17.6
40°	9.5	13.2	29.6	13.2	9.5
42.5°	5.0	6.9	15.1	6.3	5.0
45°	1.9	3.2	7.6	3.2	2.5
47.5°	1.3	1.3	3.2	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	0.0
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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