

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: P886724

Luminaire Tested: ML310LSFL9FS1E-TIR4D40FL-TL3RDSL-1000LM-3500K

Issue Date: 7/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P886724
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML310LSFL9FS1E-TIR4D40FL-TL3RDSL-1000LM-3500K
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1291.7 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 0.67 / 0.67 / 0.63
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

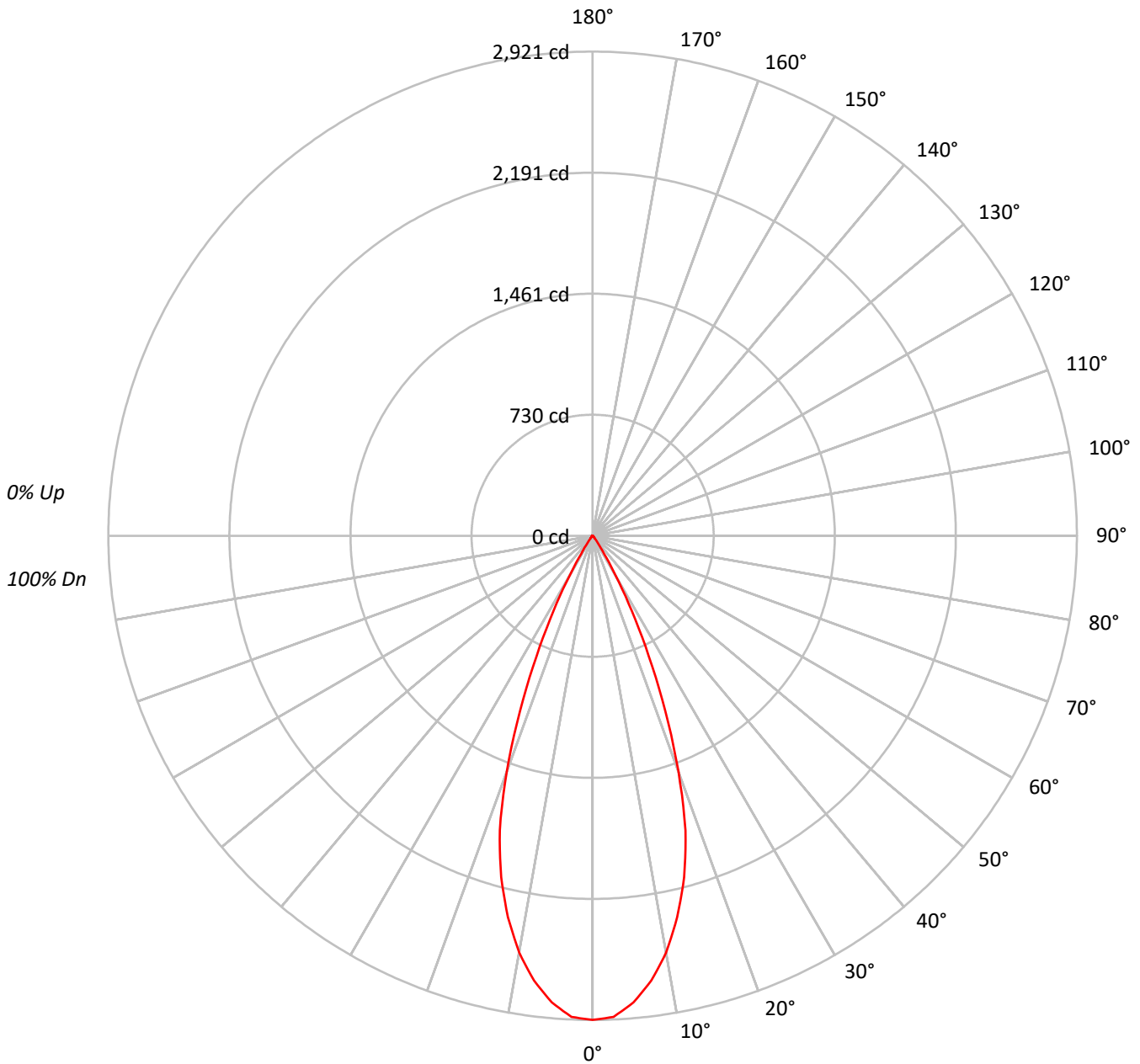
Input Watts (W): 13.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	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	96	98	96	94	95	94	92	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	95	90	87	93	89	86	91	88	85	89	86	84	83					83			
5	98	91	87	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79					79			
6	94	87	82	79	93	87	82	79	85	81	78	84	80	78	83	80	77	76					76			
7	91	84	79	75	90	83	78	75	82	78	75	81	77	75	80	77	74	73					73			
8	88	80	75	72	87	80	75	72	79	75	72	78	74	71	77	74	71	70					70			
9	85	77	72	69	84	77	72	69	76	72	69	75	71	69	74	71	68	67					67			
10	82	74	70	67	81	74	69	66	73	69	66	72	69	66	72	68	66	65					65			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	640431
5°	622164
10°	568415
15°	484157
20°	352994
25°	193221
30°	69302
35°	15740
40°	6412
45°	2977
50°	2559
55°	2447
60°	2807
65°	2750
70°	2757
75°	2711
80°	2652
85°	2768

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 82.5°
 Luminance: 3528 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.0	20.2
10°-20°	579.6	44.9
20°-30°	370.3	28.7
30°-40°	55.6	4.3
40°-50°	9.0	0.7
50°-60°	6.1	0.5
60°-70°	5.3	0.4
70°-80°	3.7	0.3
80°-90°	1.2	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°	1211.0	93.8
0°-40°	1266.5	98.1
0°-60°	1281.6	99.2
0°-90°	1291.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1291.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2921	
5°	2826	261
15°	2133	580
25°	799	370
35°	59	56
45°	10	9
55°	6	6
65°	5	5
75°	3	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2920.6
2.5°	2905.6
5°	2826.5
7.5°	2706.8
10°	2552.8
12.5°	2357.2
15°	2132.7
17.5°	1863.3
20°	1512.7
22.5°	1143.9
25°	798.6
27.5°	511.0
30°	273.7
32.5°	129.4
35°	58.8
37.5°	35.3
40°	22.4
42.5°	13.9
45°	9.6
47.5°	8.6
50°	7.5
52.5°	7.5
55°	6.4
57.5°	6.4
60°	6.4
62.5°	5.3
65°	5.3
67.5°	5.3
70°	4.3
72.5°	4.3
75°	3.2
77.5°	3.2
80°	2.1
82.5°	2.1
85°	1.1
87.5°	0.0
90°	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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