

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: P886693

Luminaire Tested: ML310LSFL9FS1E-TIR4D25NFL-TL3RDSL-1000LM-3000K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P886693
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/18/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML310LSFL9FS1E-TIR4D25NFL-TL3RDSL-1000LM-3000K
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1078.0 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.5
Luminous Opening: Circular (Dia: 0.25' x H: 0')

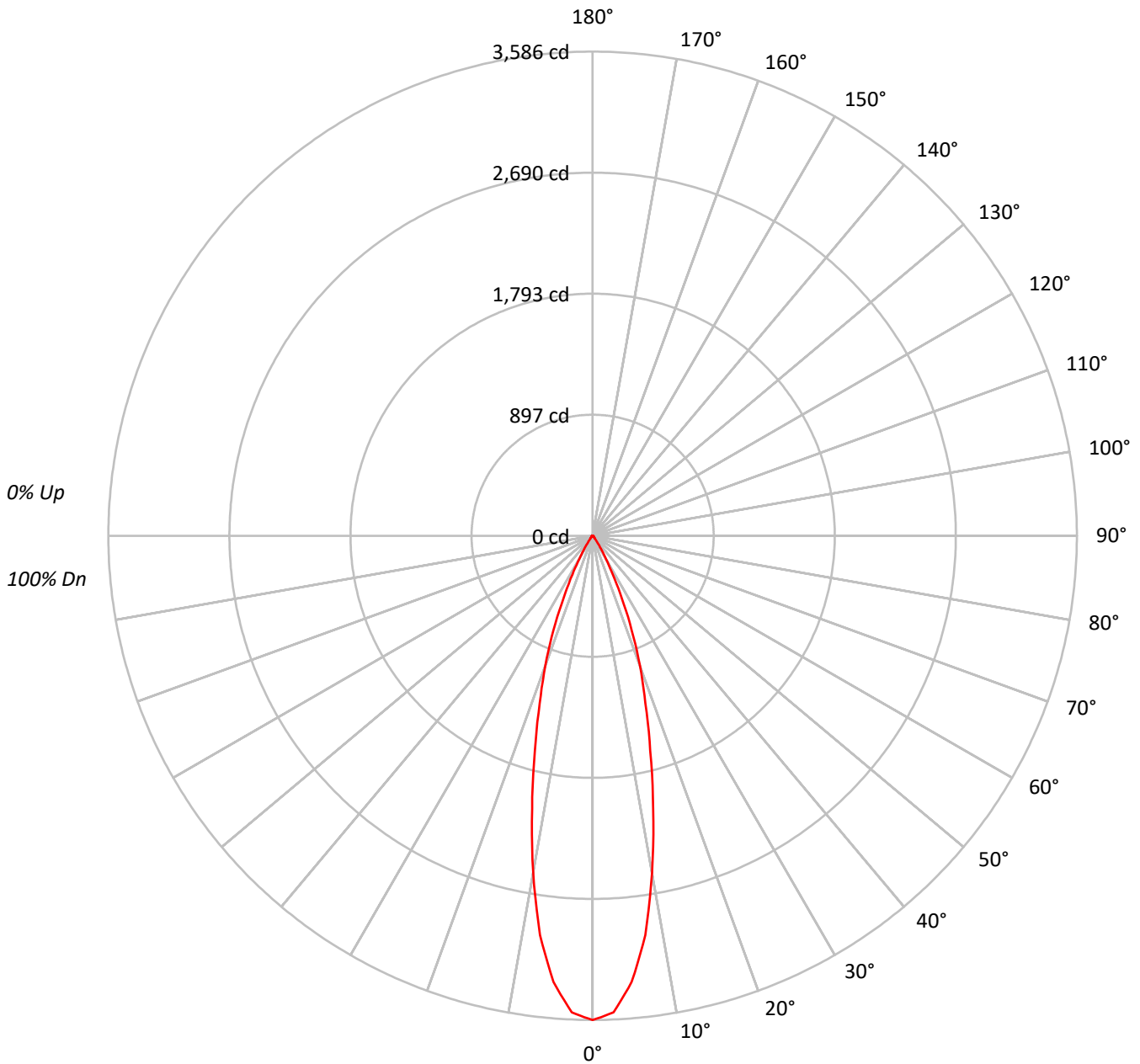
CIE Type: Direct

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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	114	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96	96	96	96
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91	91	91	91
3	106	101	97	94	104	100	96	93	97	94	92	95	92	90	93	91	89	87	87	87	87
4	102	96	92	89	101	95	91	88	93	90	87	91	88	86	90	87	85	84	84	84	84
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81	81	81	81
6	95	89	84	81	94	88	83	80	86	83	80	85	82	79	84	81	79	78	78	78	78
7	92	85	80	77	91	85	80	77	83	79	77	82	79	76	81	78	76	75	75	75	75
8	89	82	77	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72	72	72	72
9	87	79	75	72	86	79	74	71	78	74	71	77	74	71	76	73	71	70	70	70	70
10	84	77	72	69	83	76	72	69	75	72	69	75	71	69	74	71	69	68	68	68	68

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	786450
5°	730176
10°	564229
15°	374418
20°	238371
25°	122572
30°	49324
35°	16650
40°	6527
45°	4807
50°	4230
55°	3976
60°	4079
65°	4307
70°	3975
75°	4406
80°	3915
85°	2516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4807 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.7	27.1
10°-20°	459.7	42.6
20°-30°	242.5	22.5
30°-40°	47.7	4.4
40°-50°	12.5	1.2
50°-60°	9.6	0.9
60°-70°	7.8	0.7
70°-80°	5.1	0.5
80°-90°	1.3	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°	994.0	92.2
0°-40°	1041.7	96.6
0°-60°	1063.9	98.7
0°-90°	1078.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1078.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3586	
5°	3317	292
15°	1649	460
25°	507	242
35°	62	48
45°	16	13
55°	10	10
65°	8	8
75°	5	5
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3586.5
2.5°	3533.7
5°	3317.2
7.5°	2982.5
10°	2534.0
12.5°	2070.9
15°	1649.3
17.5°	1300.1
20°	1021.5
22.5°	756.3
25°	506.6
27.5°	323.2
30°	194.8
32.5°	112.9
35°	62.2
37.5°	33.2
40°	22.8
42.5°	18.6
45°	15.5
47.5°	13.5
50°	12.4
52.5°	11.4
55°	10.4
57.5°	10.4
60°	9.3
62.5°	8.3
65°	8.3
67.5°	7.3
70°	6.2
72.5°	5.2
75°	5.2
77.5°	4.1
80°	3.1
82.5°	2.1
85°	1.0
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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