

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: P886722

Luminaire Tested: ML310LSFL9FS1E-TIR4D40FL-TL3RDSL-1000LM-2700K

Issue Date: 7/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P886722
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-2700K
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

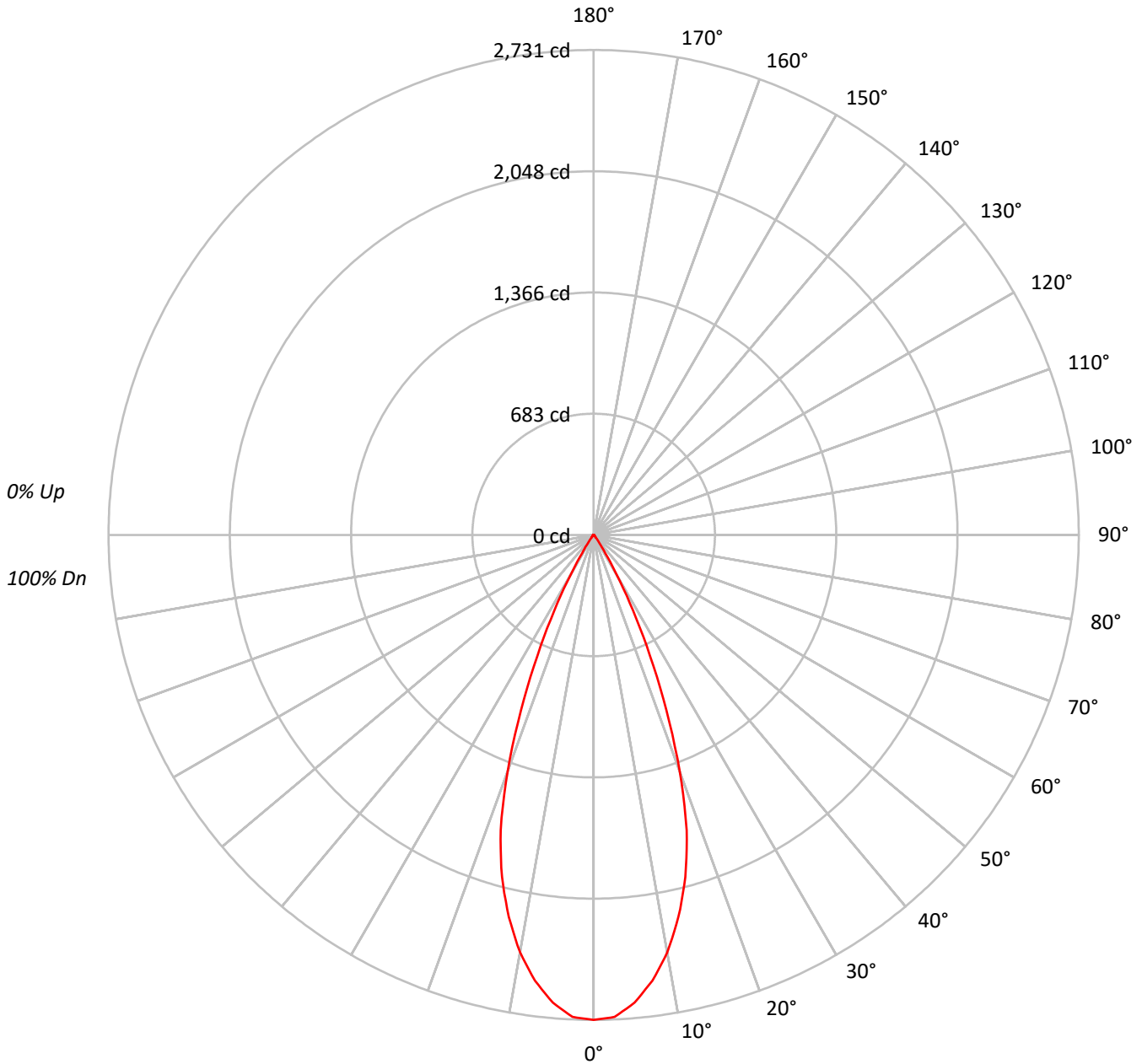
Lumens per Lamp: N/A
Luminaire Lumens: 1208.0 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 0.67 / 0.67 / 0.63
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P886722
CATALOG NUMBER: ML310LSFL9FS1E-TIR4D40FL-TL3RDSL-1000LM-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P886722

CATALOG NUMBER: ML310LSFL9FS1E-TIR4D40FL-TL3RDSL-1000LM-2700K

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
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	66	81	74	69	66	73	69	66	72	69	66	72	68	66	65			65

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	598921
5°	581839
10°	531587
15°	452784
20°	330102
25°	180688
30°	64795
35°	14723
40°	6011
45°	2791
50°	2388
55°	2294
60°	2631
65°	2594
70°	2565
75°	2542
80°	2526
85°	2516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 82.5°
 Luminance: 3360 cd/sqm



TEST NUMBER: P886722

CATALOG NUMBER: ML310LSFL9FS1E-TIR4D40FL-TL3RDSL-1000LM-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.1	20.2
10°-20°	542.0	44.9
20°-30°	346.3	28.7
30°-40°	52.0	4.3
40°-50°	8.4	0.7
50°-60°	5.7	0.5
60°-70°	5.0	0.4
70°-80°	3.4	0.3
80°-90°	1.1	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°	1132.5	93.7
0°-40°	1184.4	98.0
0°-60°	1198.5	99.2
0°-90°	1208.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1208.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2731	
5°	2643	244
15°	1994	542
25°	747	346
35°	55	52
45°	9	8
55°	6	6
65°	5	5
75°	3	3
85°	1	1
90°	0	



TEST NUMBER: P886722

CATALOG NUMBER: ML310LSFL9FS1E-TIR4D40FL-TL3RDSL-1000LM-2700K

CANDELA DISTRIBUTION (FULL):

	0°
0°	2731.3
2.5°	2717.3
5°	2643.3
7.5°	2531.4
10°	2387.4
12.5°	2204.5
15°	1994.5
17.5°	1742.6
20°	1414.6
22.5°	1069.7
25°	746.8
27.5°	477.9
30°	255.9
32.5°	121.0
35°	55.0
37.5°	33.0
40°	21.0
42.5°	13.0
45°	9.0
47.5°	8.0
50°	7.0
52.5°	7.0
55°	6.0
57.5°	6.0
60°	6.0
62.5°	5.0
65°	5.0
67.5°	5.0
70°	4.0
72.5°	4.0
75°	3.0
77.5°	3.0
80°	2.0
82.5°	2.0
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

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

Scaled Data Report



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

Scaled Data Report



— 0°-180°

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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



(END OF REPORT)