

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: P886789

Luminaire Tested: ML310LSFLD2W1E-TIR4D25NFL-TL3RDSL-600LM-3000K

Issue Date: 7/18/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886789  
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: ML310LSFLD2W1E-TIR4D25NFL-TL3RDSL-600LM-3000K  
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER TRIM  
Light Source: (1) D2W LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

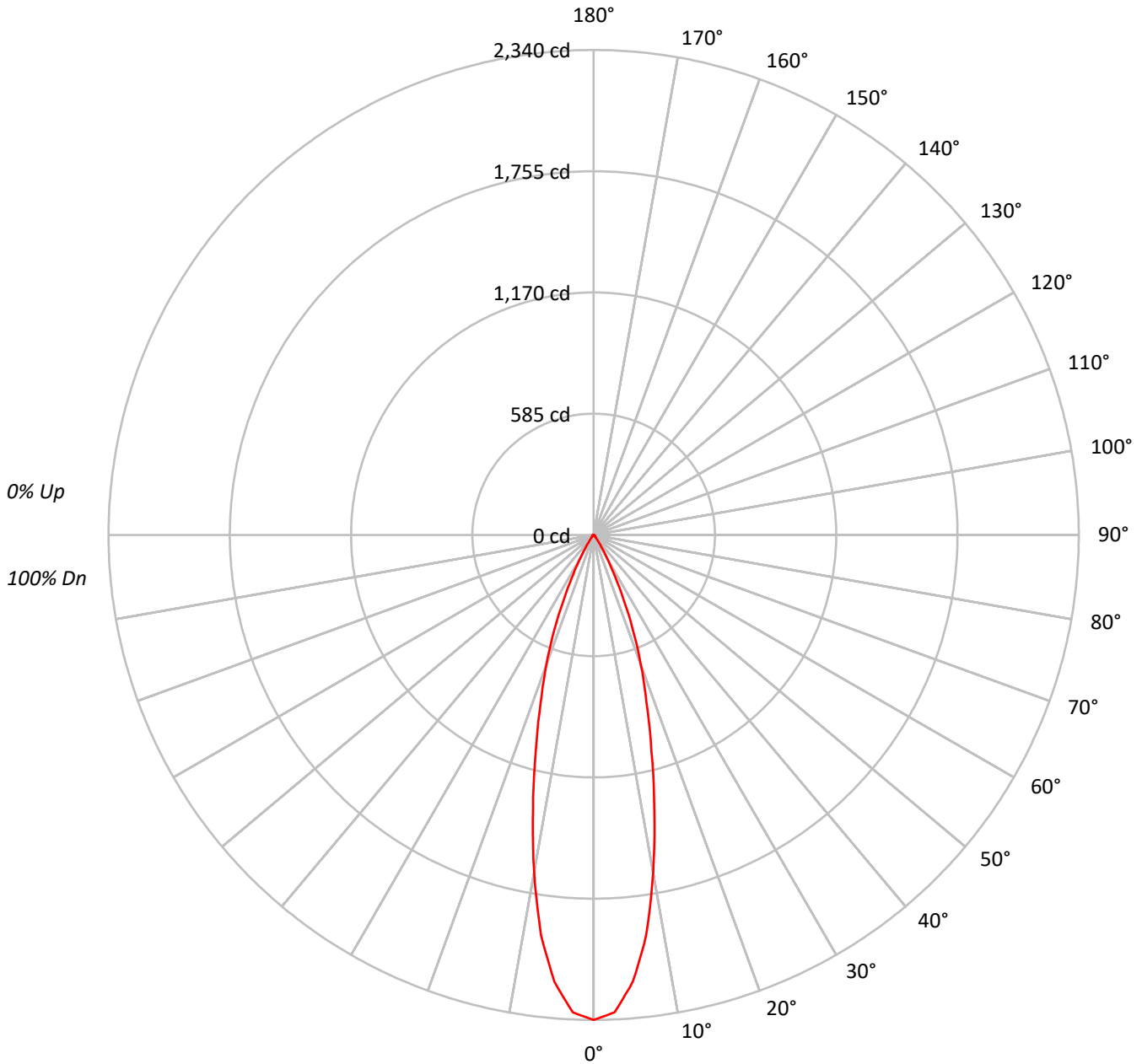
Lumens per Lamp: N/A  
Luminaire Lumens: 703.4 lumens  
Efficiency: N/A  
Efficacy: 74.0 lumens/watt  
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.5  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P886789  
CATALOG NUMBER: ML310LSFLD2W1E-TIR4D25NFL-TL3RDSL-600LM-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P886789

CATALOG NUMBER: ML310LSFLD2W1E-TIR4D25NFL-TL3RDSL-600LM-3000K

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	513117
5°	476402
10°	368129
15°	244292
20°	155530
25°	79964
30°	32182
35°	10868
40°	4265
45°	3132
50°	2763
55°	2600
60°	2675
65°	2802
70°	2629
75°	2881
80°	2526
85°	1761

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3132 cd/sqm



TEST NUMBER: P886789

CATALOG NUMBER: ML310LSFLD2W1E-TIR4D25NFL-TL3RDSL-600LM-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.3	27.1
10°-20°	300.0	42.6
20°-30°	158.2	22.5
30°-40°	31.2	4.4
40°-50°	8.2	1.2
50°-60°	6.3	0.9
60°-70°	5.1	0.7
70°-80°	3.3	0.5
80°-90°	0.8	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°	648.5	92.2
0°-40°	679.7	96.6
0°-60°	694.1	98.7
0°-90°	703.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	703.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2340	
5°	2164	190
15°	1076	300
25°	330	158
35°	41	31
45°	10	8
55°	7	6
65°	5	5
75°	3	3
85°	1	1
90°	0	



TEST NUMBER: P886789

CATALOG NUMBER: ML310LSFLD2W1E-TIR4D25NFL-TL3RDSL-600LM-3000K

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2340.0
2.5°	2305.6
5°	2164.3
7.5°	1946.0
10°	1653.3
12.5°	1351.2
15°	1076.1
17.5°	848.3
20°	666.5
22.5°	493.4
25°	330.5
27.5°	210.9
30°	127.1
32.5°	73.7
35°	40.6
37.5°	21.6
40°	14.9
42.5°	12.2
45°	10.1
47.5°	8.8
50°	8.1
52.5°	7.4
55°	6.8
57.5°	6.8
60°	6.1
62.5°	5.4
65°	5.4
67.5°	4.7
70°	4.1
72.5°	3.4
75°	3.4
77.5°	2.7
80°	2.0
82.5°	1.4
85°	0.7
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)