

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: P886562

Luminaire Tested: ML310LSFL95FS1E-TIR4D25NFL-TL3RDSL-850LM-2700K

Issue Date: 7/18/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886562  
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: ML310LSFL95FS1E-TIR4D25NFL-TL3RDSL-850LM-2700K  
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

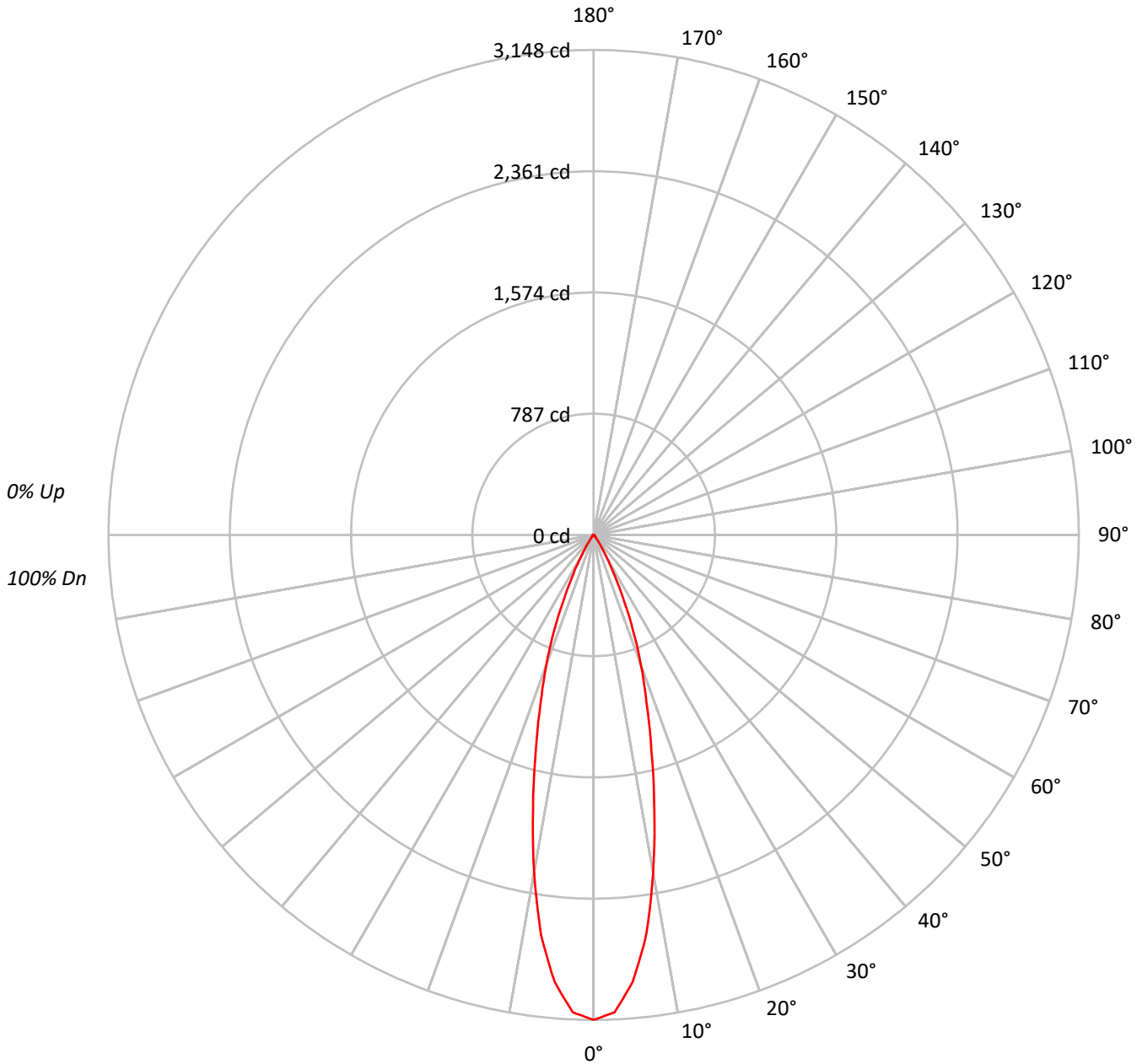
Lumens per Lamp: N/A  
Luminaire Lumens: 946.0 lumens  
Efficiency: N/A  
Efficacy: 69.6 lumens/watt  
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.5  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 13.6  
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



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

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

	0°
0°	690208
5°	640808
10°	495159
15°	328583
20°	209178
25°	107571
30°	43272
35°	14616
40°	5725
45°	4217
50°	3718
55°	3479
60°	3596
65°	3788
70°	3526
75°	3813
80°	3410
85°	2264

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4217 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	256.0	27.1
10°-20°	403.5	42.6
20°-30°	212.8	22.5
30°-40°	41.9	4.4
40°-50°	11.0	1.2
50°-60°	8.4	0.9
60°-70°	6.9	0.7
70°-80°	4.4	0.5
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°	872.3	92.2
0°-40°	914.2	96.6
0°-60°	933.6	98.7
0°-90°	946.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	946.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3148	
5°	2911	256
15°	1447	403
25°	445	213
35°	55	42
45°	14	11
55°	9	8
65°	7	7
75°	4	4
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3147.6
2.5°	3101.2
5°	2911.2
7.5°	2617.5
10°	2223.8
12.5°	1817.4
15°	1447.4
17.5°	1141.0
20°	896.4
22.5°	663.7
25°	444.6
27.5°	283.7
30°	170.9
32.5°	99.1
35°	54.6
37.5°	29.1
40°	20.0
42.5°	16.4
45°	13.6
47.5°	11.8
50°	10.9
52.5°	10.0
55°	9.1
57.5°	9.1
60°	8.2
62.5°	7.3
65°	7.3
67.5°	6.4
70°	5.5
72.5°	4.5
75°	4.5
77.5°	3.6
80°	2.7
82.5°	1.8
85°	0.9
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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(END OF REPORT)