

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: P886565

Luminaire Tested: ML310LSFL95FS1E-TIR4D25NFL-TL3RDSL-850LM-4000K

Issue Date: 7/18/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886565  
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-4000K  
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1044.4 lumens  
Efficiency: N/A  
Efficacy: 76.8 lumens/watt  
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.5  
Luminous Opening: Circular (Dia: 0.25' x H: 0')

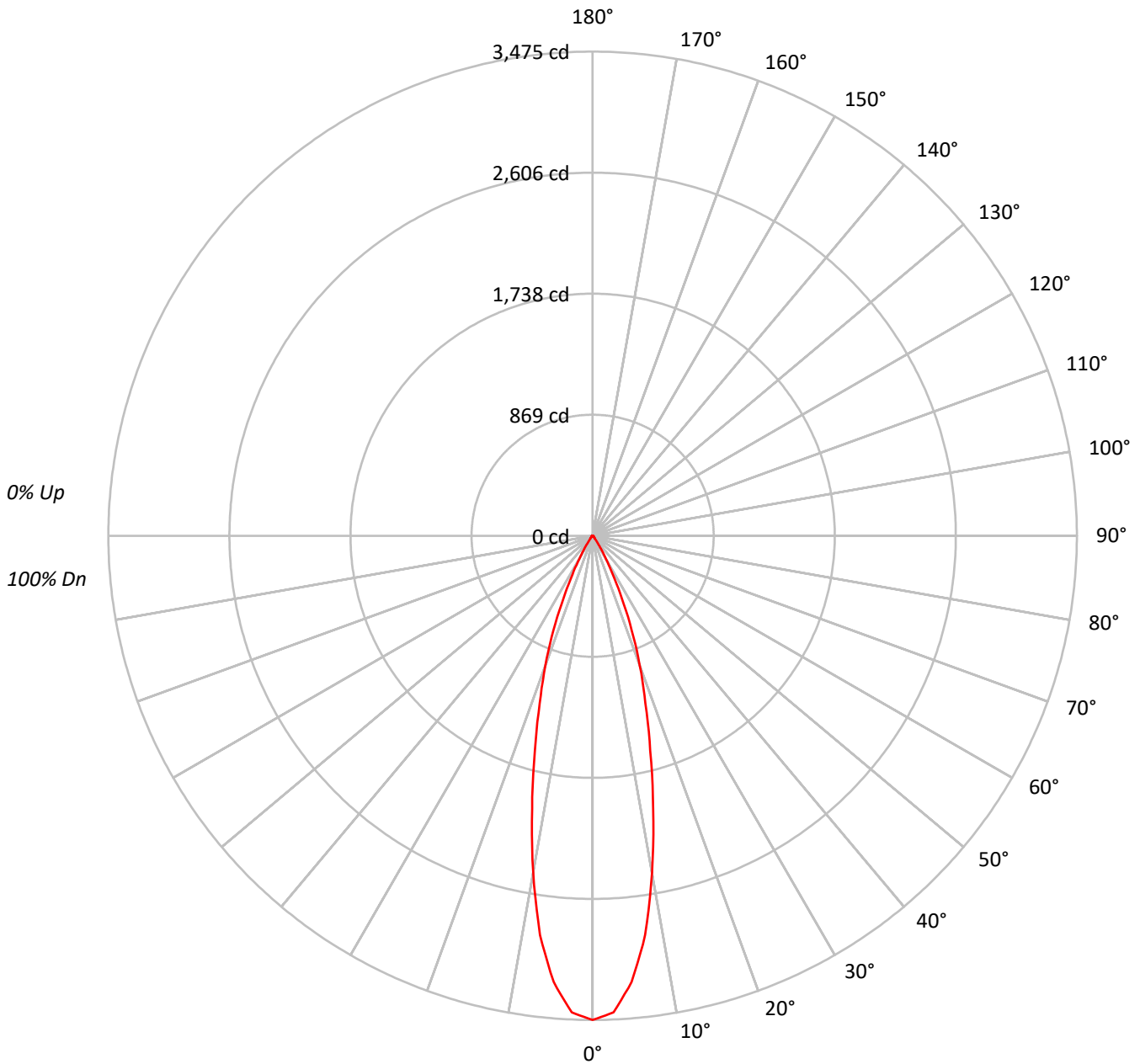
CIE Type: Direct

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																			
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	80	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°	761978
5°	707438
10°	546661
15°	362749
20°	230950
25°	118749
30°	47780
35°	16115
40°	6326
45°	4683
50°	4094
55°	3823
60°	3947
65°	4151
70°	3847
75°	4236
80°	3788
85°	2516

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4683 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	282.7	27.1
10°-20°	445.4	42.7
20°-30°	234.9	22.5
30°-40°	46.2	4.4
40°-50°	12.1	1.2
50°-60°	9.3	0.9
60°-70°	7.6	0.7
70°-80°	4.9	0.5
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°	963.0	92.2
0°-40°	1009.3	96.6
0°-60°	1030.7	98.7
0°-90°	1044.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1044.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3475	
5°	3214	283
15°	1598	445
25°	491	235
35°	60	46
45°	15	12
55°	10	9
65°	8	8
75°	5	5
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3474.9
2.5°	3423.7
5°	3213.9
7.5°	2889.7
10°	2455.1
12.5°	2006.4
15°	1597.9
17.5°	1259.7
20°	989.7
22.5°	732.7
25°	490.8
27.5°	313.2
30°	188.7
32.5°	109.4
35°	60.2
37.5°	32.1
40°	22.1
42.5°	18.1
45°	15.1
47.5°	13.0
50°	12.0
52.5°	11.0
55°	10.0
57.5°	10.0
60°	9.0
62.5°	8.0
65°	8.0
67.5°	7.0
70°	6.0
72.5°	5.0
75°	5.0
77.5°	4.0
80°	3.0
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

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— 0°-180°

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(END OF REPORT)