

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: P886587

Luminaire Tested: ML310LSFL95FS1E-TIR4D40FL-TL3RDMW-850LM-2700K

Issue Date: 7/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886587  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-4)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 7/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML310LSFL95FS1E-TIR4D40FL-TL3RDMW-850LM-2700K  
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE WHITE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

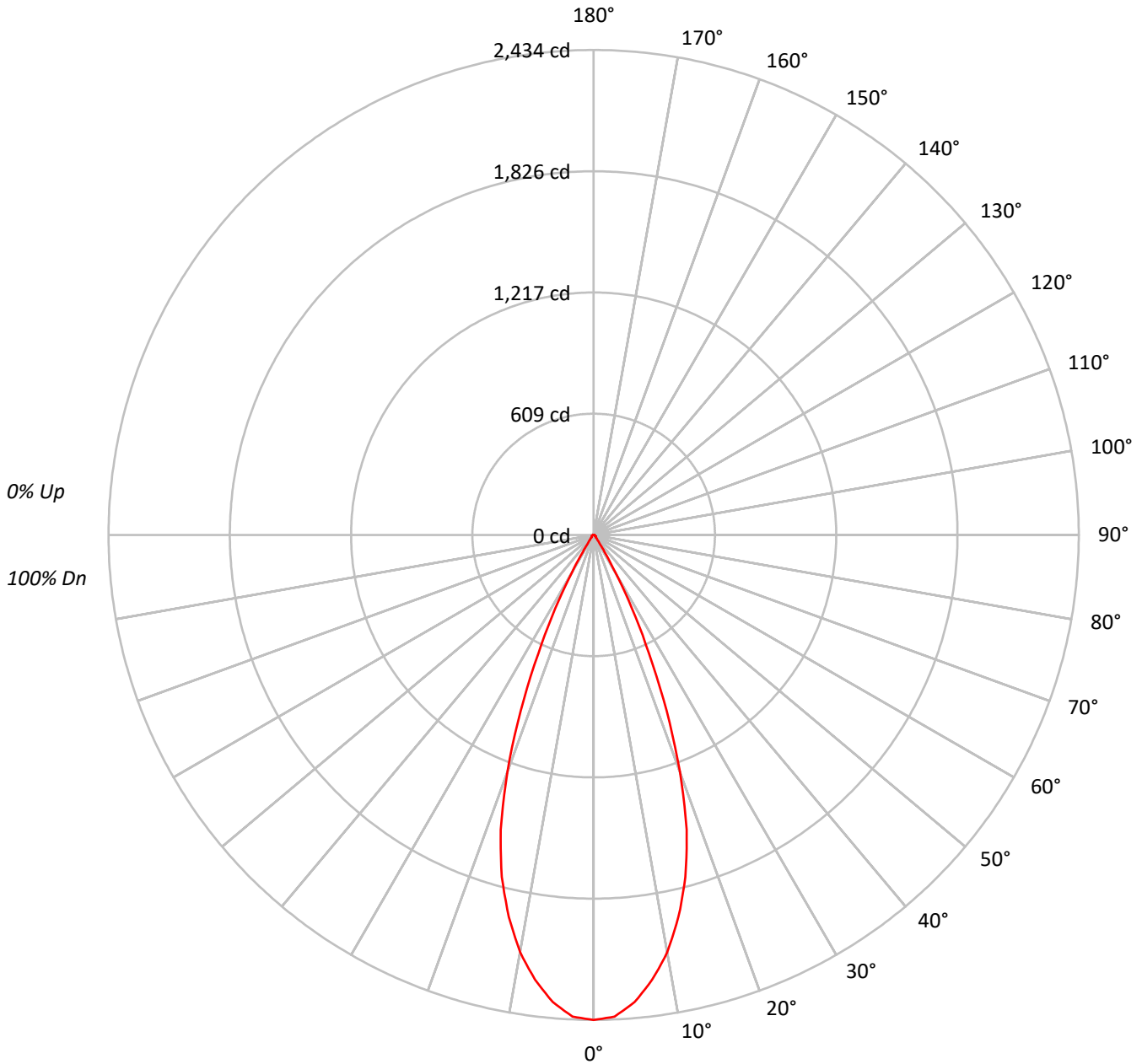
Lumens per Lamp: N/A  
Luminaire Lumens: 1089.6 lumens  
Efficiency: N/A  
Efficacy: 80.1 lumens/watt  
Spacing Criteria (0/90/45): 0.67 / 0.67 / 0.62  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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				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	104	103	102	101	100	99	98	97	95	95	95	95
2	110	105	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90	90	90	90
3	105	100	96	92	103	99	95	92	96	93	90	94	91	89	92	89	87	86	86	86	86
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82	82	82	82
5	97	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79	79	79	79
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75	75	75	75
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72	72	72	72
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69	69	69	69
9	84	76	72	68	83	76	71	68	75	71	68	74	71	68	74	70	68	67	67	67	67
10	81	74	69	66	81	73	69	66	72	68	65	72	68	65	71	68	65	64	64	64	64

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

	0°
0°	533839
5°	518070
10°	473472
15°	403725
20°	294959
25°	158525
30°	55224
35°	13144
40°	6240
45°	4217
50°	4025
55°	4511
60°	4386
65°	4722
70°	4680
75°	4660
80°	4546
85°	4529

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 62.5°  
 Luminance: 4749 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.3	19.9
10°-20°	483.0	44.3
20°-30°	306.0	28.1
30°-40°	45.3	4.2
40°-50°	11.2	1.0
50°-60°	10.2	0.9
60°-70°	8.9	0.8
70°-80°	5.8	0.5
80°-90°	2.0	0.2
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°	1006.3	92.4
0°-40°	1051.6	96.5
0°-60°	1073.0	98.5
0°-90°	1089.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1089.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2434	
5°	2354	217
15°	1778	483
25°	655	306
35°	49	45
45°	14	11
55°	12	10
65°	9	9
75°	6	6
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2434.5
2.5°	2419.9
5°	2353.6
7.5°	2251.8
10°	2126.4
12.5°	1964.7
15°	1778.4
17.5°	1550.3
20°	1264.0
22.5°	956.0
25°	655.2
27.5°	416.2
30°	218.1
32.5°	100.0
35°	49.1
37.5°	32.7
40°	21.8
42.5°	15.4
45°	13.6
47.5°	12.7
50°	11.8
52.5°	11.8
55°	11.8
57.5°	10.9
60°	10.0
62.5°	10.0
65°	9.1
67.5°	8.2
70°	7.3
72.5°	6.4
75°	5.5
77.5°	4.5
80°	3.6
82.5°	2.7
85°	1.8
87.5°	0.9
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)