

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: P886591

Luminaire Tested: ML310LSFL95FS1E-TIR4D40FL-TL3RDMW-850LM-5000K

Issue Date: 7/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886591  
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-5000K  
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE WHITE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1262.6 lumens  
Efficiency: N/A  
Efficacy: 92.8 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

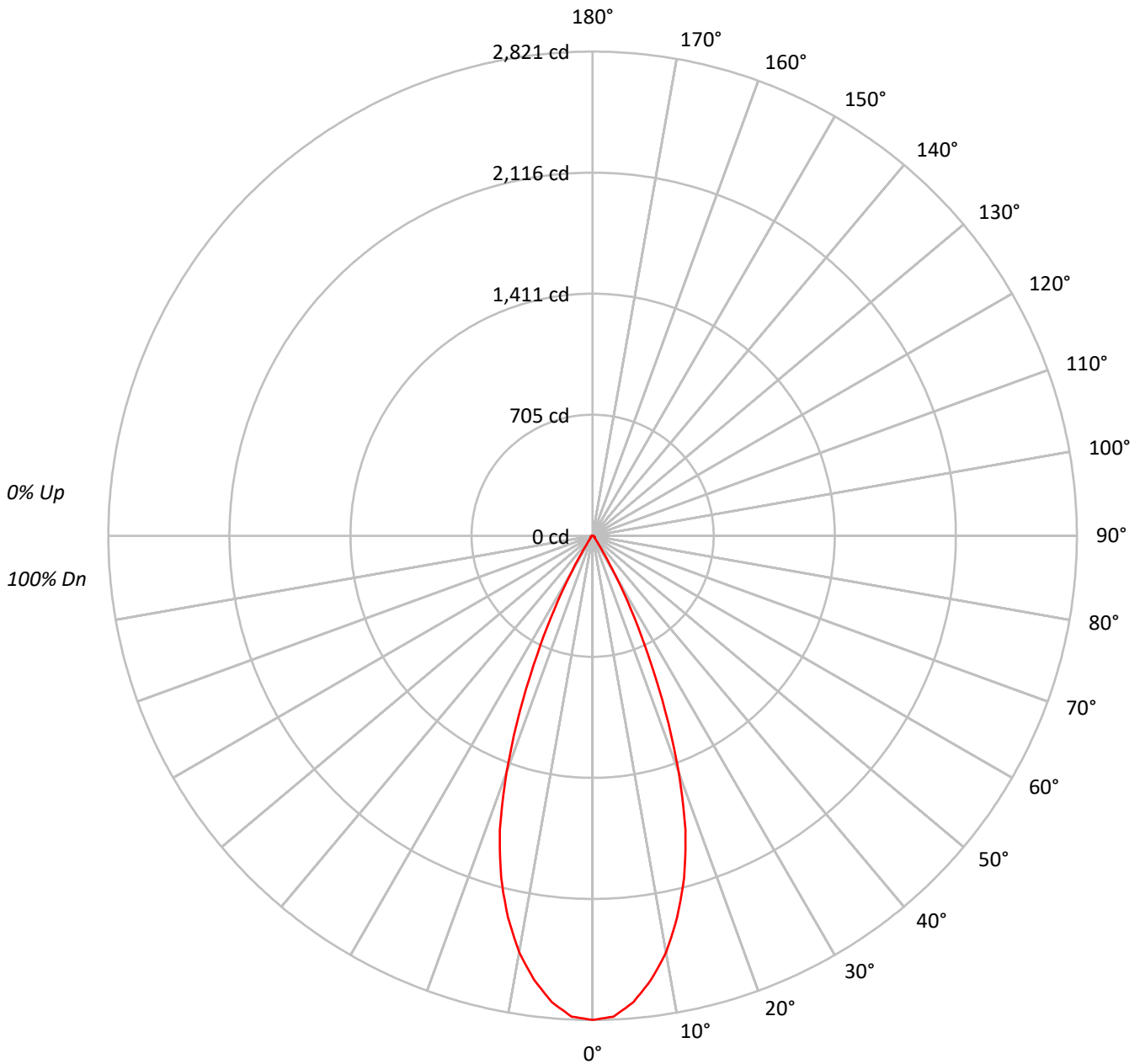
Input Watts (W): 13.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20																	
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	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	104	103	102	101	100	99	98	97	95																											
2	110	105	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																											
3	105	100	96	92	103	99	95	92	96	93	90	94	91	89	92	89	87	86																											
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																											
5	97	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79																											
6	94	87	82	78	93	86	81	78	84	80	77	83	80	77	82	79	76	75																											
7	91	83	78	75	89	82	78	74	81	77	74	80	76	74	79	76	73	72																											
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69																											
9	84	76	72	68	83	76	71	68	75	71	68	74	71	68	74	70	68	67																											
10	81	74	69	66	81	73	69	66	72	68	65	72	68	65	71	68	65	64																											

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

	0°
0°	618525
5°	600263
10°	548598
15°	467767
20°	341770
25°	183664
30°	63985
35°	15232
40°	7242
45°	4900
50°	4674
55°	5238
60°	5087
65°	5448
70°	5386
75°	5338
80°	5304
85°	5284

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 87.5°  
 Luminance: 5530 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	251.8	19.9
10°-20°	559.6	44.3
20°-30°	354.5	28.1
30°-40°	52.5	4.2
40°-50°	13.0	1.0
50°-60°	11.8	0.9
60°-70°	10.3	0.8
70°-80°	6.7	0.5
80°-90°	2.3	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°	1166.0	92.4
0°-40°	1218.4	96.5
0°-60°	1243.3	98.5
0°-90°	1262.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1262.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2821	
5°	2727	252
15°	2060	560
25°	759	355
35°	57	52
45°	16	13
55°	14	12
65°	10	10
75°	6	7
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2820.7
2.5°	2803.9
5°	2727.0
7.5°	2609.1
10°	2463.8
12.5°	2276.4
15°	2060.5
17.5°	1796.2
20°	1464.6
22.5°	1107.7
25°	759.1
27.5°	482.2
30°	252.7
32.5°	115.8
35°	56.9
37.5°	37.9
40°	25.3
42.5°	17.9
45°	15.8
47.5°	14.7
50°	13.7
52.5°	13.7
55°	13.7
57.5°	12.6
60°	11.6
62.5°	11.6
65°	10.5
67.5°	9.5
70°	8.4
72.5°	7.4
75°	6.3
77.5°	5.3
80°	4.2
82.5°	3.2
85°	2.1
87.5°	1.1
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)