

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: P886583

Luminaire Tested: ML310LSFL95FS1E-TIR4D40FL-TL3RDMB-850LM-3000K

Issue Date: 7/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886583  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 7/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML310LSFL95FS1E-TIR4D40FL-TL3RDMB-850LM-3000K  
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE BLACK TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

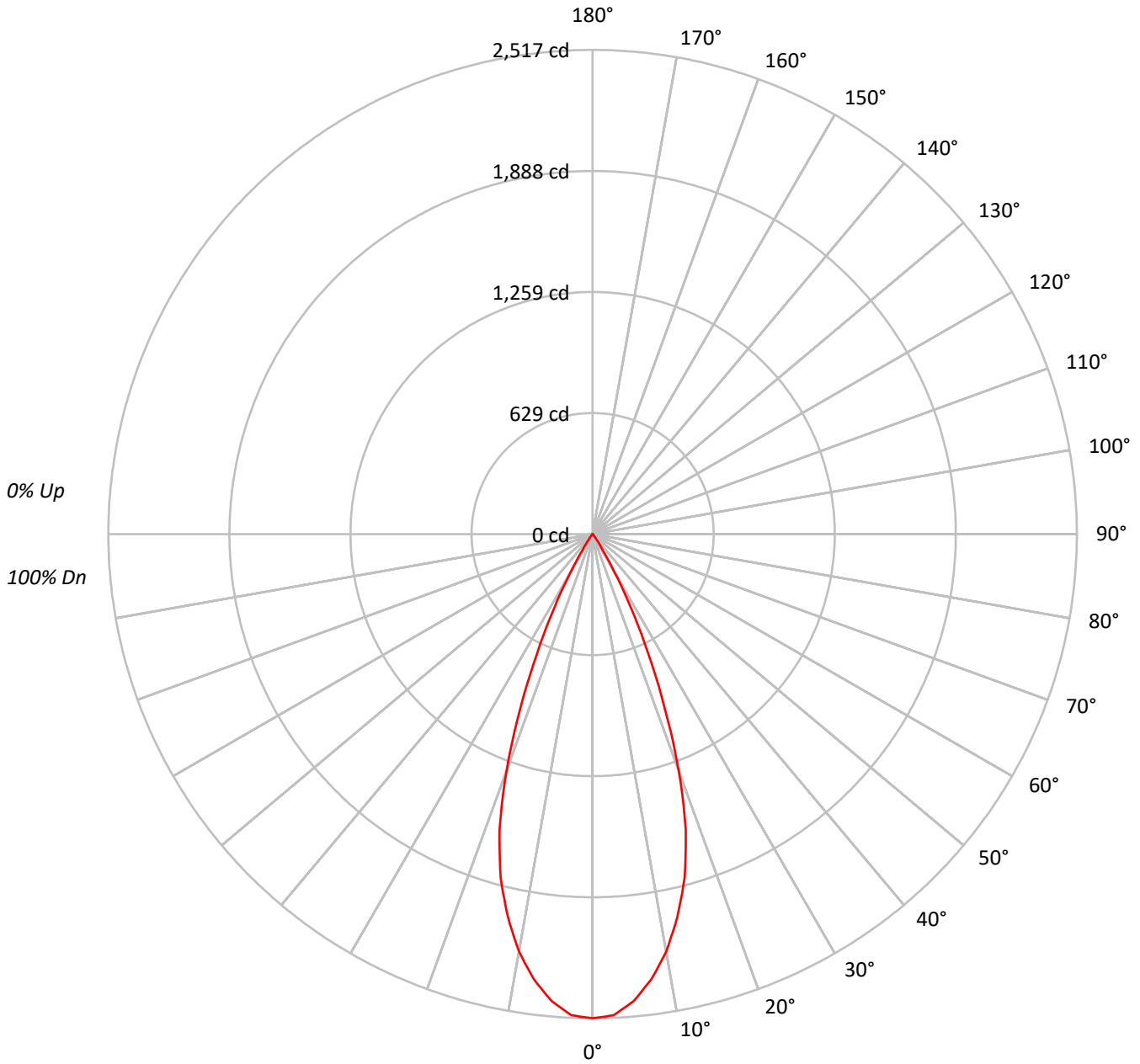
Lumens per Lamp: N/A  
Luminaire Lumens: 1084.1 lumens  
Efficiency: N/A  
Efficacy: 79.7 lumens/watt  
Spacing Criteria (0/90/45): 0.67 / 0.67 / 0.62  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	98	96	96	96	96
2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	95	93	92	92	92	92
3	106	101	97	94	105	100	96	93	97	94	92	95	93	91	93	91	89	88	88	88	88
4	102	97	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84	84	84	84
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81	81	81	81
6	95	88	84	80	94	88	83	80	86	82	80	85	82	79	84	81	79	77	77	77	77
7	92	85	80	77	91	84	80	77	83	79	76	82	78	76	81	78	76	74	74	74	74
8	89	81	77	74	88	81	77	73	80	76	73	79	75	73	78	75	73	72	72	72	72
9	86	78	74	71	85	78	74	71	77	73	70	76	73	70	76	72	70	69	69	69	69
10	83	75	71	68	82	75	71	68	74	70	68	74	70	67	73	70	67	66	66	66	66

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

	0°
0°	551842
5°	536538
10°	490550
15°	419344
20°	305600
25°	164913
30°	56034
35°	10574
40°	2977
45°	589
50°	0
55°	0
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 589 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.1	20.8
10°-20°	501.0	46.2
20°-30°	315.8	29.1
30°-40°	40.0	3.7
40°-50°	2.2	0.2
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	1041.9	96.1
0°-40°	1081.9	99.8
0°-60°	1084.1	100.0
0°-90°	1084.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1084.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2517	
5°	2438	225
15°	1847	501
25°	682	316
35°	40	40
45°	2	2
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2516.6
2.5°	2503.4
5°	2437.5
7.5°	2334.9
10°	2203.1
12.5°	2036.5
15°	1847.2
17.5°	1608.1
20°	1309.6
22.5°	981.0
25°	681.6
27.5°	429.3
30°	221.3
32.5°	93.2
35°	39.5
37.5°	20.7
40°	10.4
42.5°	3.8
45°	1.9
47.5°	0.9
50°	0.0
52.5°	0.0
55°	0.0
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
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)