

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: P886551

Luminaire Tested: ML310LSFL95FS1E-TIR4D25NFL-TL3RDMB-650LM-5000K

Issue Date: 7/18/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886551  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 7/18/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML310LSFL95FS1E-TIR4D25NFL-TL3RDMB-650LM-5000K  
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

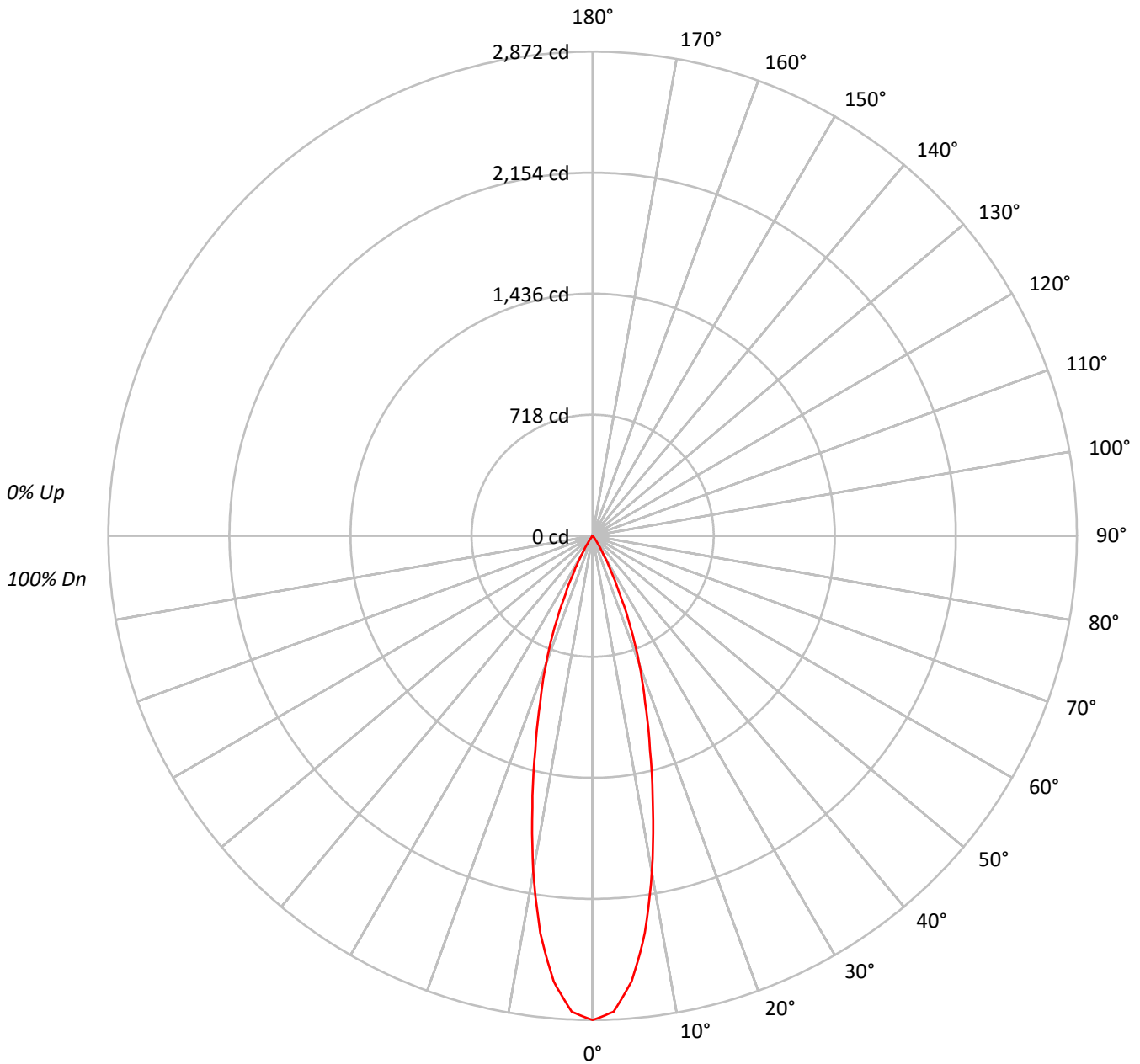
Lumens per Lamp: N/A  
Luminaire Lumens: 815.0 lumens  
Efficiency: N/A  
Efficacy: 76.2 lumens/watt  
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.5  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 10.7  
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





TEST NUMBER: P886551  
 CATALOG NUMBER: ML310LSFL95FS1E-TIR4D25NFL-TL3RDDB-650LM-5000K

**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	115	113	111	109	112	111	109	107	107	105	104	103	102	101	100	99	98	96				96															
2	111	107	104	101	109	105	103	100	102	100	98	100	98	96	97	95	94	93				93															
3	107	102	99	96	105	101	98	95	99	96	93	96	94	92	94	92	91	89				89															
4	104	98	94	91	102	97	93	90	95	92	89	93	90	88	91	89	87	86				86															
5	100	94	90	87	99	93	89	86	92	88	86	90	87	85	89	86	84	83				83															
6	97	91	86	83	96	90	86	83	88	85	82	87	84	82	86	83	81	80				80															
7	94	87	83	80	93	87	83	80	86	82	79	85	81	79	84	81	78	77				77															
8	91	84	80	77	90	84	80	77	83	79	76	82	79	76	81	78	76	75				75															
9	89	81	77	74	88	81	77	74	80	77	74	79	76	74	79	76	73	73				73															
10	86	79	75	72	85	79	74	72	78	74	72	77	74	71	77	73	71	70				70															

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

	0°
0°	629818
5°	584128
10°	450649
15°	297822
20°	188363
25°	92255
30°	34056
35°	9182
40°	1975
45°	806
50°	307
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: 806 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	232.9	28.6
10°-20°	366.0	44.9
20°-30°	185.0	22.7
30°-40°	28.6	3.5
40°-50°	2.4	0.3
50°-60°	0.1	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°	784.0	96.2
0°-40°	812.5	99.7
0°-60°	815.0	100.0
0°-90°	815.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	815.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2872	
5°	2654	233
15°	1312	366
25°	381	185
35°	34	29
45°	3	2
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2872.2
2.5°	2826.8
5°	2653.7
7.5°	2375.2
10°	2023.9
12.5°	1651.2
15°	1311.9
17.5°	1035.1
20°	807.2
22.5°	588.7
25°	381.3
27.5°	238.2
30°	134.5
32.5°	72.8
35°	34.3
37.5°	13.7
40°	6.9
42.5°	4.3
45°	2.6
47.5°	1.7
50°	0.9
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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Scaled Data Report



(END OF REPORT)