

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: P886615

Luminaire Tested: ML310LSFL95FS1E-TIR4D55WFL-TL3RDDB-850LM-4000K

Issue Date: 7/5/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886615  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 7/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML310LSFL95FS1E-TIR4D55WFL-TL3RDDB-850LM-4000K  
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE BLACK TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

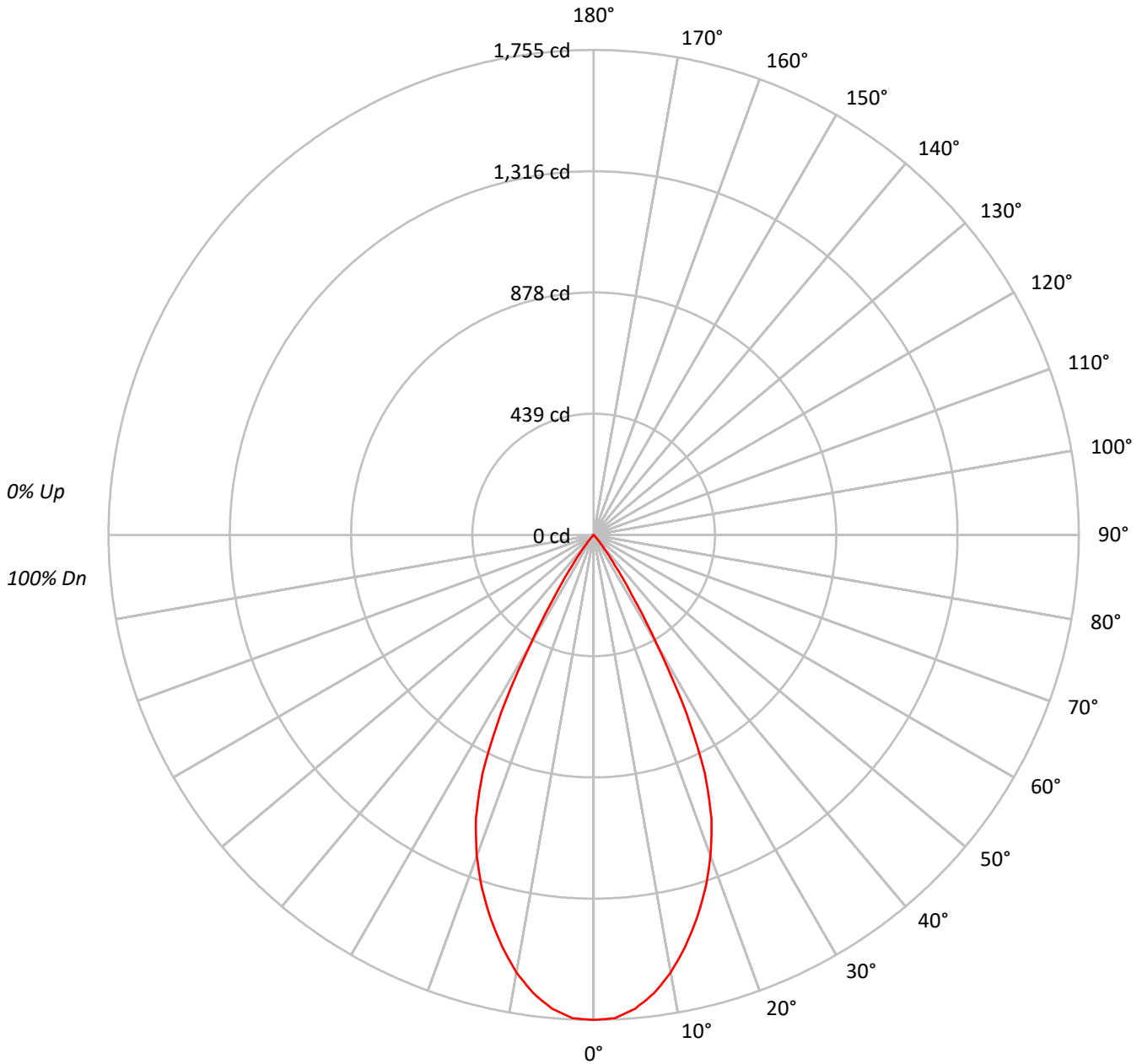
Lumens per Lamp: N/A  
Luminaire Lumens: 1079.6 lumens  
Efficiency: N/A  
Efficacy: 79.4 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.76  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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				
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95				
2	109	105	102	99	107	104	100	98	100	98	96	97	95	93	95	93	92	90				
3	105	99	95	92	103	98	94	91	95	92	89	93	90	88	91	89	87	85				
4	101	94	89	86	99	93	89	85	91	87	84	89	86	83	87	84	82	81				
5	96	89	84	80	95	88	84	80	87	82	79	85	81	79	84	80	78	77				
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	73				
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	70	69				
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66				
9	82	73	68	65	81	73	68	65	72	68	64	71	67	64	70	67	64	63				
10	79	70	65	62	78	70	65	62	69	64	61	68	64	61	67	64	61	60				

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

	0°
0°	384881
5°	378846
10°	357954
15°	326426
20°	288448
25°	230070
30°	114929
35°	36031
40°	7471
45°	620
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: 620 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.6	14.9
10°-20°	400.7	37.1
20°-30°	409.9	38.0
30°-40°	104.1	9.6
40°-50°	4.2	0.4
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°	971.2	90.0
0°-40°	1075.3	99.6
0°-60°	1079.6	100.0
0°-90°	1079.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1079.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1755	
5°	1721	161
15°	1438	401
25°	951	410
35°	135	104
45°	2	4
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1755.2
2.5°	1750.2
5°	1721.1
7.5°	1672.9
10°	1607.6
12.5°	1527.3
15°	1437.9
17.5°	1342.5
20°	1236.1
22.5°	1113.6
25°	950.9
27.5°	724.0
30°	453.9
32.5°	256.1
35°	134.6
37.5°	64.3
40°	26.1
42.5°	7.0
45°	2.0
47.5°	1.0
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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Scaled Data Report



(END OF REPORT)