

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: P886560

Luminaire Tested: ML310LSFL95FS1E-TIR4D25NFL-TL3RDMW-850LM-4000K

Issue Date: 7/18/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886560  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 7/18/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML310LSFL95FS1E-TIR4D25NFL-TL3RDMW-850LM-4000K  
Description: 3IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

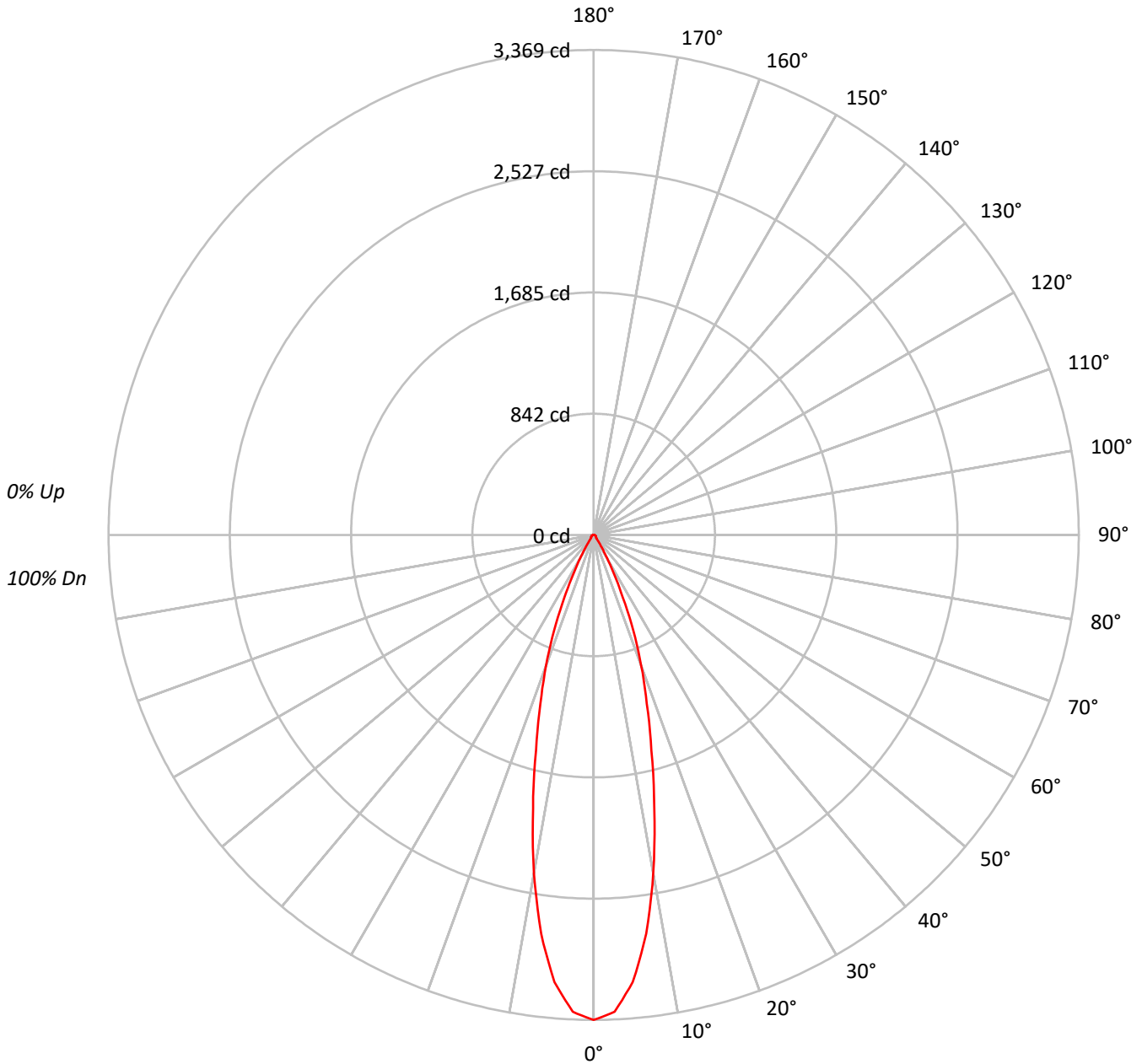
Lumens per Lamp: N/A  
Luminaire Lumens: 1050.5 lumens  
Efficiency: N/A  
Efficacy: 77.2 lumens/watt  
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.5  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	114	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	97	95																			
2	110	105	102	99	107	104	100	98	100	98	96	97	95	94	95	93	92	90																			
3	105	100	95	92	103	98	95	91	96	93	90	94	91	89	91	89	87	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	98	91	86	82	96	90	85	82	88	84	81	87	83	81	85	82	80	79																			
6	94	87	82	78	93	86	82	78	85	81	78	83	80	77	82	79	77	76																			
7	91	83	79	75	90	83	78	75	82	78	75	81	77	74	80	76	74	73																			
8	88	80	75	72	87	80	75	72	79	75	72	78	74	71	77	74	71	70																			
9	85	77	73	69	84	77	72	69	76	72	69	75	72	69	75	71	69	68																			
10	82	75	70	67	82	74	70	67	74	70	67	73	69	67	72	69	66	65																			

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

	0°
0°	738844
5°	686417
10°	531386
15°	351239
20°	225163
25°	115870
30°	46767
35°	17213
40°	8330
45°	7474
50°	7198
55°	7684
60°	7938
65°	8354
70°	8399
75°	8472
80°	7577
85°	7548

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 75°  
 Luminance: 8472 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	274.0	26.1
10°-20°	432.8	41.2
20°-30°	229.5	21.8
30°-40°	48.4	4.6
40°-50°	19.0	1.8
50°-60°	17.9	1.7
60°-70°	15.6	1.5
70°-80°	10.2	1.0
80°-90°	3.3	0.3
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°	936.2	89.1
0°-40°	984.6	93.7
0°-60°	1021.5	97.2
0°-90°	1050.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1050.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3369	
5°	3118	274
15°	1547	433
25°	479	230
35°	64	48
45°	24	19
55°	20	18
65°	16	16
75°	10	10
85°	3	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3369.4
2.5°	3316.2
5°	3118.4
7.5°	2795.2
10°	2386.5
12.5°	1946.8
15°	1547.2
17.5°	1227.9
20°	964.9
22.5°	716.9
25°	478.9
27.5°	306.2
30°	184.7
32.5°	110.4
35°	64.3
37.5°	38.2
40°	29.1
42.5°	26.1
45°	24.1
47.5°	23.1
50°	21.1
52.5°	21.1
55°	20.1
57.5°	19.1
60°	18.1
62.5°	17.1
65°	16.1
67.5°	14.1
70°	13.1
72.5°	11.0
75°	10.0
77.5°	8.0
80°	6.0
82.5°	5.0
85°	3.0
87.5°	1.0
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)