

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: P885628

Luminaire Tested: ML104LSFL95FS1E-TIR1D25NFL-TL1RDMW-340LM-2700K

Issue Date: 7/18/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P885628  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-118)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 7/18/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML104LSFL95FS1E-TIR1D25NFL-TL1RDMW-340LM-2700K  
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

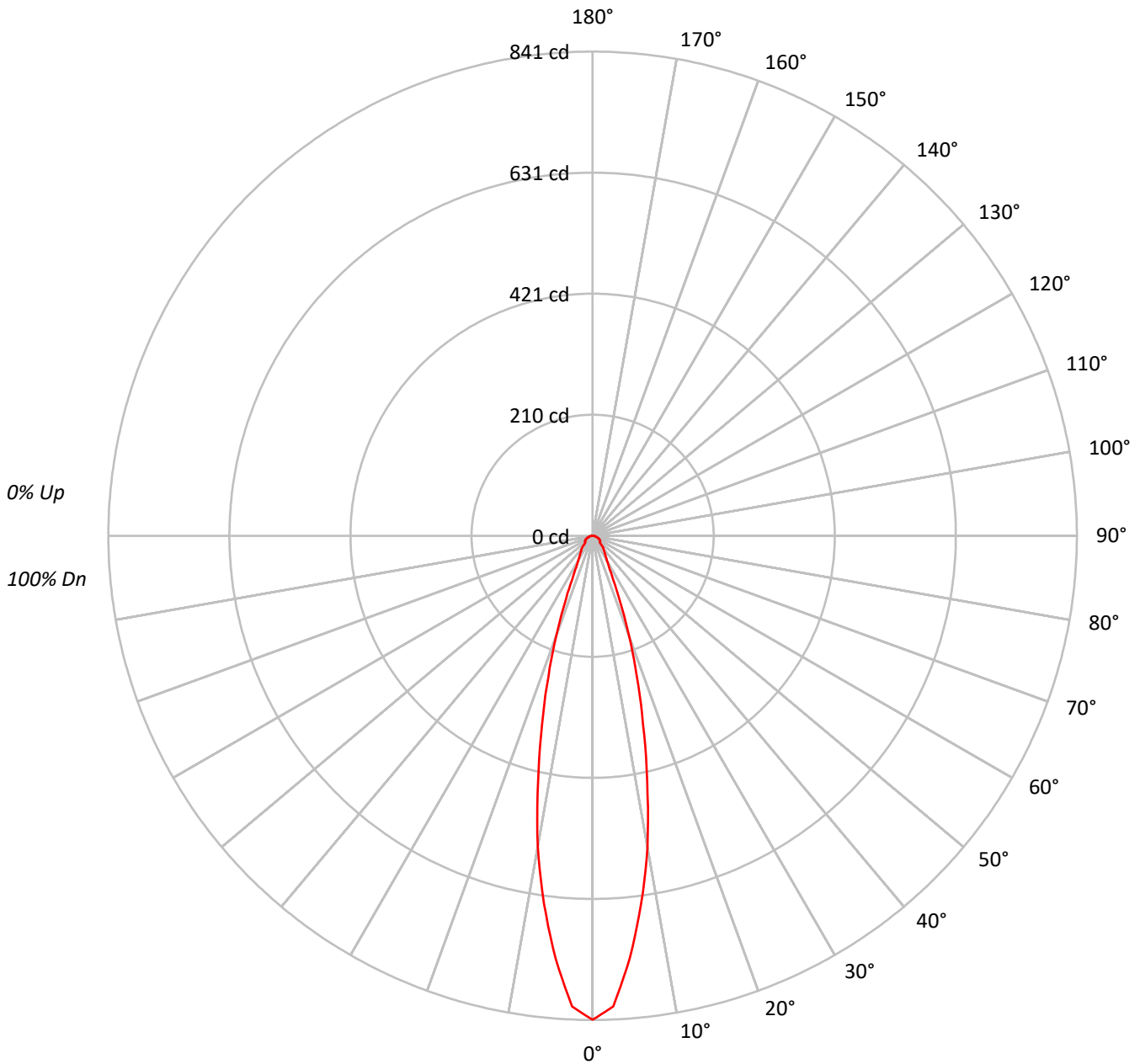
Lumens per Lamp: N/A  
Luminaire Lumens: 275.1 lumens  
Efficiency: N/A  
Efficacy: 45.1 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.46  
Luminous Opening: Circular (Dia: 0.08' x H: 0')  
CIE Type: Direct

Input Watts (W): 6.1  
Input Voltage (V): NR  
Input Current (Ain): 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
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92			92
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85			85
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	86	84	81	80			80
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75			75
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71			71
6	89	80	74	70	87	79	74	70	78	73	70	77	72	69	75	72	69	67			67
7	85	77	71	67	84	76	70	67	75	70	66	73	69	66	72	68	66	64			64
8	82	73	68	64	81	73	67	64	72	67	63	71	66	63	70	66	63	62			62
9	79	70	65	61	78	70	64	61	69	64	61	68	64	61	67	63	60	59			59
10	76	67	62	59	75	67	62	59	66	62	58	66	61	58	65	61	58	57			57

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

	0°
0°	1658959
5°	1460056
10°	1099588
15°	690384
20°	386017
25°	184440
30°	113031
35°	88901
40°	76515
45°	52750
50°	52502
55°	55740
60°	56838
65°	54637
70°	51932
75°	48039
80°	40915
85°	40759

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 60°  
 Luminance: 56838 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.4	23.4
10°-20°	93.7	34.1
20°-30°	43.1	15.7
30°-40°	23.5	8.5
40°-50°	16.2	5.9
50°-60°	14.2	5.2
60°-70°	11.4	4.1
70°-80°	6.6	2.4
80°-90°	2.0	0.7
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°	201.2	73.1
0°-40°	224.7	81.7
0°-60°	255.1	92.7
0°-90°	275.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	275.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	841	
5°	737	64
15°	338	94
25°	85	43
35°	37	24
45°	19	16
55°	16	14
65°	12	11
75°	6	7
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	840.6
2.5°	818.1
5°	737.0
7.5°	645.1
10°	548.7
12.5°	437.0
15°	337.9
17.5°	255.0
20°	183.8
22.5°	125.2
25°	84.7
27.5°	61.3
30°	49.6
32.5°	42.3
35°	36.9
37.5°	32.4
40°	29.7
42.5°	25.2
45°	18.9
47.5°	17.1
50°	17.1
52.5°	16.2
55°	16.2
57.5°	15.3
60°	14.4
62.5°	12.6
65°	11.7
67.5°	9.9
70°	9.0
72.5°	7.2
75°	6.3
77.5°	5.4
80°	3.6
82.5°	2.7
85°	1.8
87.5°	0.9
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)