

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: P885632

Luminaire Tested: ML104LSFL95FS1E-TIR1D25NFL-TL1RDMW-340LM-5000K

Issue Date: 7/18/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P885632  
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-5000K  
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

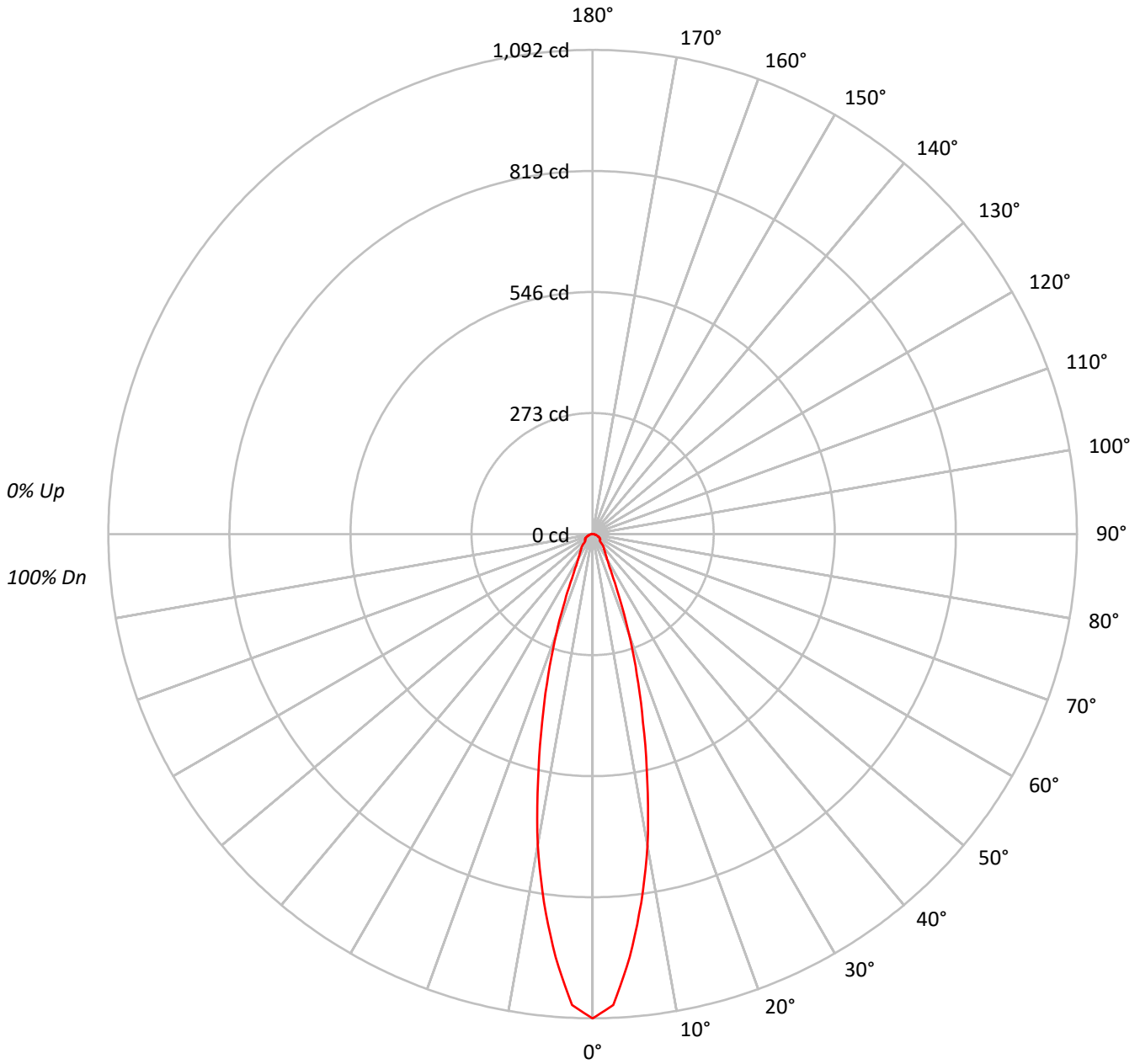
Lumens per Lamp: N/A  
Luminaire Lumens: 357.6 lumens  
Efficiency: N/A  
Efficacy: 58.6 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.46  
Luminous Opening: Circular (Dia: 0.08' x H: 0')  
CIE Type: Direct

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									
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	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	76	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	61						61													
9	79	70	65	61	78	70	64	61	69	64	61	68	64	60	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°	2155897
5°	1897479
10°	1429043
15°	897152
20°	501738
25°	239750
30°	146758
35°	115644
40°	99444
45°	68659
50°	68160
55°	72600
60°	73810
65°	70981
70°	67512
75°	62526
80°	53416
85°	52081

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 60°  
 Luminance: 73810 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.7	23.4
10°-20°	121.7	34.0
20°-30°	56.0	15.7
30°-40°	30.6	8.6
40°-50°	21.1	5.9
50°-60°	18.5	5.2
60°-70°	14.8	4.1
70°-80°	8.7	2.4
80°-90°	2.5	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°	261.5	73.1
0°-40°	292.0	81.7
0°-60°	331.6	92.7
0°-90°	357.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	357.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1092	
5°	958	84
15°	439	122
25°	110	56
35°	48	31
45°	25	21
55°	21	18
65°	15	15
75°	8	9
85°	2	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1092.4
2.5°	1063.2
5°	957.8
7.5°	838.4
10°	713.1
12.5°	567.9
15°	439.1
17.5°	331.4
20°	238.9
22.5°	162.8
25°	110.1
27.5°	79.6
30°	64.4
32.5°	55.0
35°	48.0
37.5°	42.2
40°	38.6
42.5°	32.8
45°	24.6
47.5°	22.2
50°	22.2
52.5°	21.1
55°	21.1
57.5°	19.9
60°	18.7
62.5°	16.4
65°	15.2
67.5°	12.9
70°	11.7
72.5°	9.4
75°	8.2
77.5°	7.0
80°	4.7
82.5°	3.5
85°	2.3
87.5°	1.2
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)