

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: P885646

Luminaire Tested: ML104LSFL95FS1E-TIR1D25NFL-TL1RDSLb-340LM-4000K

Issue Date: 7/18/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P885646  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-122)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 7/18/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML104LSFL95FS1E-TIR1D25NFL-TL1RDSL B-340LM-4000K  
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER BAFFLED TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

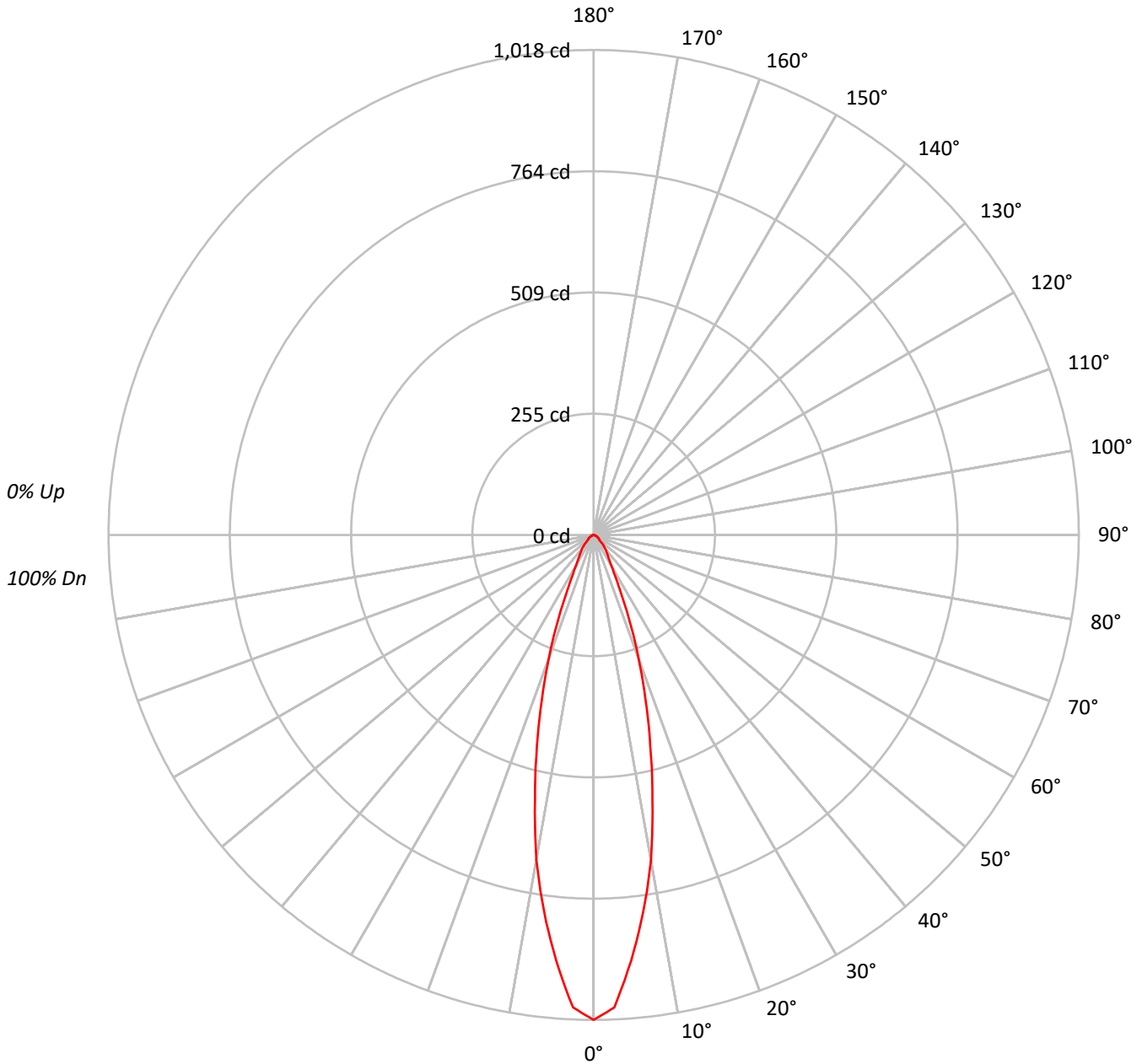
Lumens per Lamp: N/A  
Luminaire Lumens: 344.0 lumens  
Efficiency: N/A  
Efficacy: 56.4 lumens/watt  
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.49  
Luminous Opening: Circular (Dia: 0.08' x H: 0')  
CIE Type: Direct

Input Watts (W): 6.1  
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



TEST NUMBER: P885646  
CATALOG NUMBER: ML104LSFL95FS1E-TIR1D25NFL-TL1RDSL B-340LM-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P885646  
 CATALOG NUMBER: ML104LSFL95FS1E-TIR1D25NFL-TL1RDSL B-340LM-4000K

**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	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	109	104	101	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89																			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	86	90	87	85	84																			
4	100	93	88	84	98	92	87	83	89	85	82	88	84	81	86	83	80	79																			
5	95	88	83	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75																			
6	92	84	78	74	90	83	78	74	81	77	74	80	76	73	79	75	73	71																			
7	88	80	74	71	87	79	74	71	78	73	70	77	73	70	76	72	69	68																			
8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	67	65																			
9	82	73	68	65	81	73	68	64	72	67	64	71	67	64	70	67	64	63																			
10	79	70	65	62	78	70	65	62	69	65	62	68	64	62	68	64	61	60																			

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

	0°
0°	2009066
5°	1778614
10°	1387360
15°	938628
20°	575455
25°	295931
30°	165672
35°	121908
40°	97641
45°	70613
50°	48511
55°	43354
60°	37497
65°	29420
70°	18465
75°	8388
80°	12502
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 70613 cd/sqm



TEST NUMBER: P885646

CATALOG NUMBER: ML104LSFL95FS1E-TIR1D25NFL-TL1RDSL B-340LM-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.3	23.1
10°-20°	126.7	36.8
20°-30°	67.2	19.5
30°-40°	32.4	9.4
40°-50°	19.2	5.6
50°-60°	11.3	3.3
60°-70°	6.0	1.7
70°-80°	1.7	0.5
80°-90°	0.1	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°	273.2	79.4
0°-40°	305.6	88.9
0°-60°	336.1	97.7
0°-90°	344.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	344.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1018	
5°	898	79
15°	459	127
25°	136	67
35°	51	32
45°	25	19
55°	13	11
65°	6	6
75°	1	2
85°	0	0
90°	0	



TEST NUMBER: P885646

CATALOG NUMBER: ML104LSFL95FS1E-TIR1D25NFL-TL1RDSL B-340LM-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1018.0
2.5°	992.7
5°	897.8
7.5°	797.7
10°	692.3
12.5°	570.1
15°	459.4
17.5°	360.4
20°	274.0
22.5°	199.2
25°	135.9
27.5°	95.9
30°	72.7
32.5°	60.1
35°	50.6
37.5°	43.2
40°	37.9
42.5°	31.6
45°	25.3
47.5°	16.9
50°	15.8
52.5°	13.7
55°	12.6
57.5°	11.6
60°	9.5
62.5°	7.4
65°	6.3
67.5°	4.2
70°	3.2
72.5°	2.1
75°	1.1
77.5°	1.1
80°	1.1
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

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)