

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: P885790

Luminaire Tested: ML104LSFL95FS1E-TIR1D55WFL-TL1SDSL-340LM-3500K

Issue Date: 6/19/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P885790  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-149)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/19/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML104LSFL95FS1E-TIR1D55WFL-TL1SDSL-340LM-3500K  
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 392.9 lumens  
Efficiency: N/A  
Efficacy: 64.4 lumens/watt  
Spacing Criteria (0/90/45): 0.82 / 0.83 / 0.8  
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')  
CIE Type: Direct

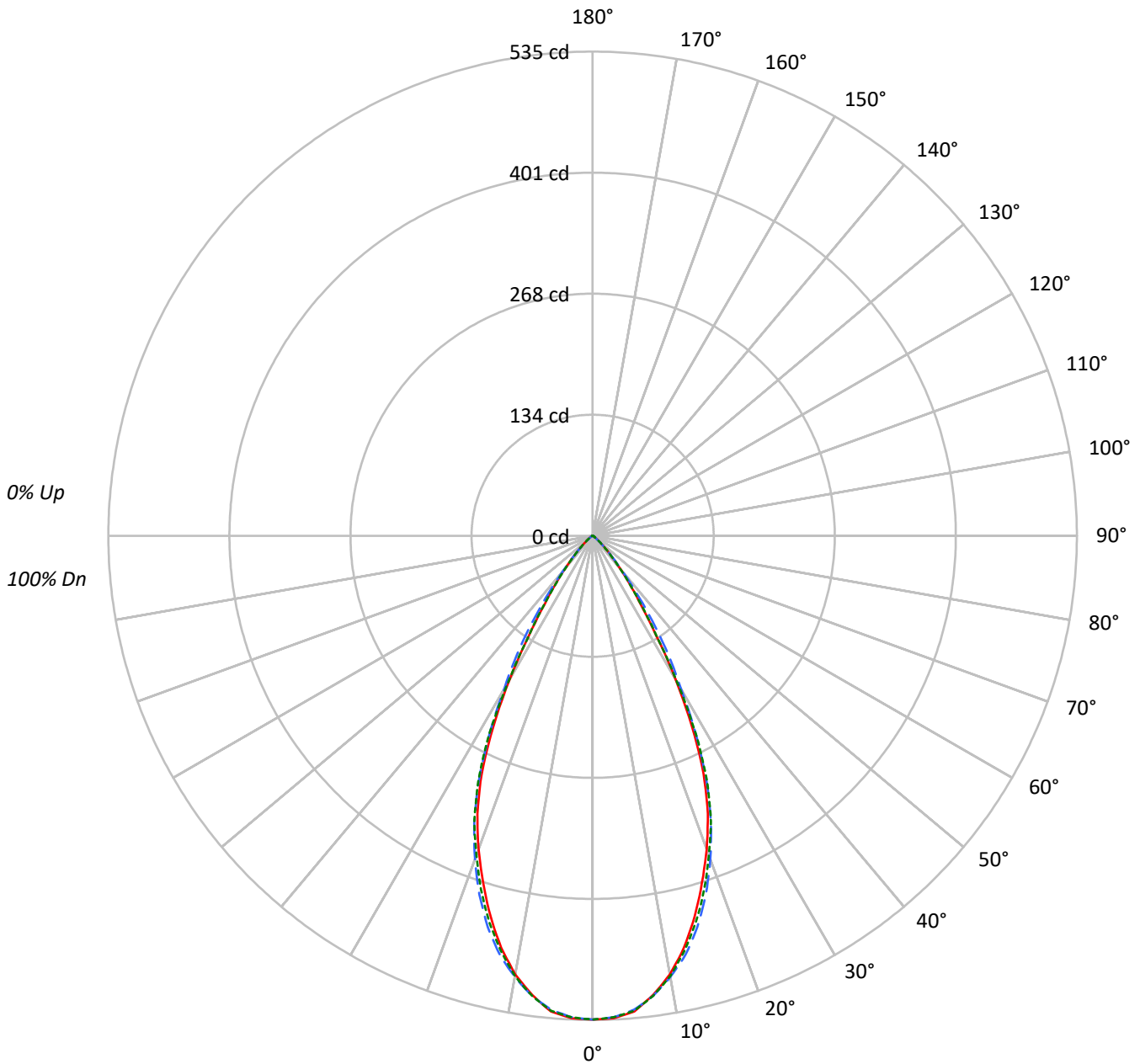
Input Watts (W): 6.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P885790

CATALOG NUMBER: ML104LSFL95FS1E-TIR1D55WFL-TL1SDSL-340LM-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P885790

CATALOG NUMBER: ML104LSFL95FS1E-TIR1D55WFL-TL1SDSL-340LM-3500K

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	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	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88		
3	103	97	92	89	101	96	91	88	93	90	87	91	88	85	89	86	84	82		
4	98	91	86	82	97	90	85	81	88	84	81	86	82	80	84	81	79	77		
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	72		
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	70	68		
7	85	76	71	67	84	76	70	67	75	70	66	73	69	66	72	68	65	64		
8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	61		
9	78	69	63	59	77	68	63	59	67	62	59	66	62	59	66	61	58	57		
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	62	58	55	54		

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

	0°	45°	90°
0°	828639	828639	828639
5°	821068	817956	819512
10°	774372	779094	777520
15°	699005	718101	708473
20°	607508	627137	618890
25°	496145	507945	511366
30°	327713	349012	333083
35°	174273	217227	177869
40°	94088	102182	92065
45°	45595	45595	43403
50°	21461	16639	21461
55°	10809	8107	10809
60°	6200	3100	6200
65°	3668	3668	3668
70°	4532	4532	4532
75°	5989	0	5989
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 45595 cd/sqm



TEST NUMBER: P885790

CATALOG NUMBER: ML104LSFL95FS1E-TIR1D55WFL-TL1SDSL-340LM-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.2	12.5
10°-20°	123.0	31.3
20°-30°	132.3	33.7
30°-40°	66.1	16.8
40°-50°	17.3	4.4
50°-60°	3.5	0.9
60°-70°	1.1	0.3
70°-80°	0.4	0.1
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°	304.4	77.5
0°-40°	370.5	94.3
0°-60°	391.3	99.6
0°-90°	392.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	392.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	535	535	535	535	535	
5°	528	525	526	527	527	49
15°	436	440	448	444	442	121
25°	290	294	297	300	299	129
35°	92	99	115	99	94	62
45°	21	20	21	20	20	18
55°	4	3	3	4	4	4
65°	1	1	1	1	1	1
75°	1	0	0	0	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P885790

CATALOG NUMBER: ML104LSFL95FS1E-TIR1D55WFL-TL1SDSL-340LM-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	534.6	534.6	534.6	534.6	534.6
2.5°	533.6	532.6	532.6	533.6	532.6
5°	527.7	524.7	525.7	526.7	526.7
7.5°	511.8	511.8	512.8	513.8	512.8
10°	492.0	493.0	495.0	496.0	494.0
12.5°	466.3	468.3	474.2	472.2	469.3
15°	435.6	439.6	447.5	444.5	441.5
17.5°	401.9	407.9	415.8	413.8	409.9
20°	368.3	372.2	380.2	380.2	375.2
22.5°	332.6	336.6	341.5	343.5	341.5
25°	290.1	294.0	297.0	300.0	299.0
27.5°	237.6	244.5	246.5	249.5	247.5
30°	183.1	189.1	195.0	194.0	186.1
32.5°	130.7	137.6	155.4	142.6	131.7
35°	92.1	99.0	114.8	99.0	94.0
37.5°	67.3	66.3	78.2	67.3	66.3
40°	46.5	47.5	50.5	46.5	45.5
42.5°	31.7	30.7	32.7	31.7	30.7
45°	20.8	19.8	20.8	19.8	19.8
47.5°	12.9	11.9	11.9	11.9	12.9
50°	8.9	7.9	6.9	7.9	8.9
52.5°	5.9	4.9	4.9	4.9	5.9
55°	4.0	3.0	3.0	4.0	4.0
57.5°	3.0	2.0	2.0	2.0	3.0
60°	2.0	2.0	1.0	2.0	2.0
62.5°	2.0	1.0	1.0	1.0	2.0
65°	1.0	1.0	1.0	1.0	1.0
67.5°	1.0	1.0	1.0	1.0	1.0
70°	1.0	1.0	1.0	1.0	1.0
72.5°	1.0	1.0	0.0	1.0	1.0
75°	1.0	0.0	0.0	0.0	1.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	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







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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)