

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: P885795

Luminaire Tested: ML104LSFL95FS1E-TIR1D55WFL-TL1SDSLB-340LM-3500K

Issue Date: 6/19/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P885795  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-152)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/19/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML104LSFL95FS1E-TIR1D55WFL-TL1SDSLB-340LM-3500K  
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER BAFFLED TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 394.3 lumens  
Efficiency: N/A  
Efficacy: 64.6 lumens/watt  
Spacing Criteria (0/90/45): 0.81 / 0.84 / 0.81  
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')  
CIE Type: Direct

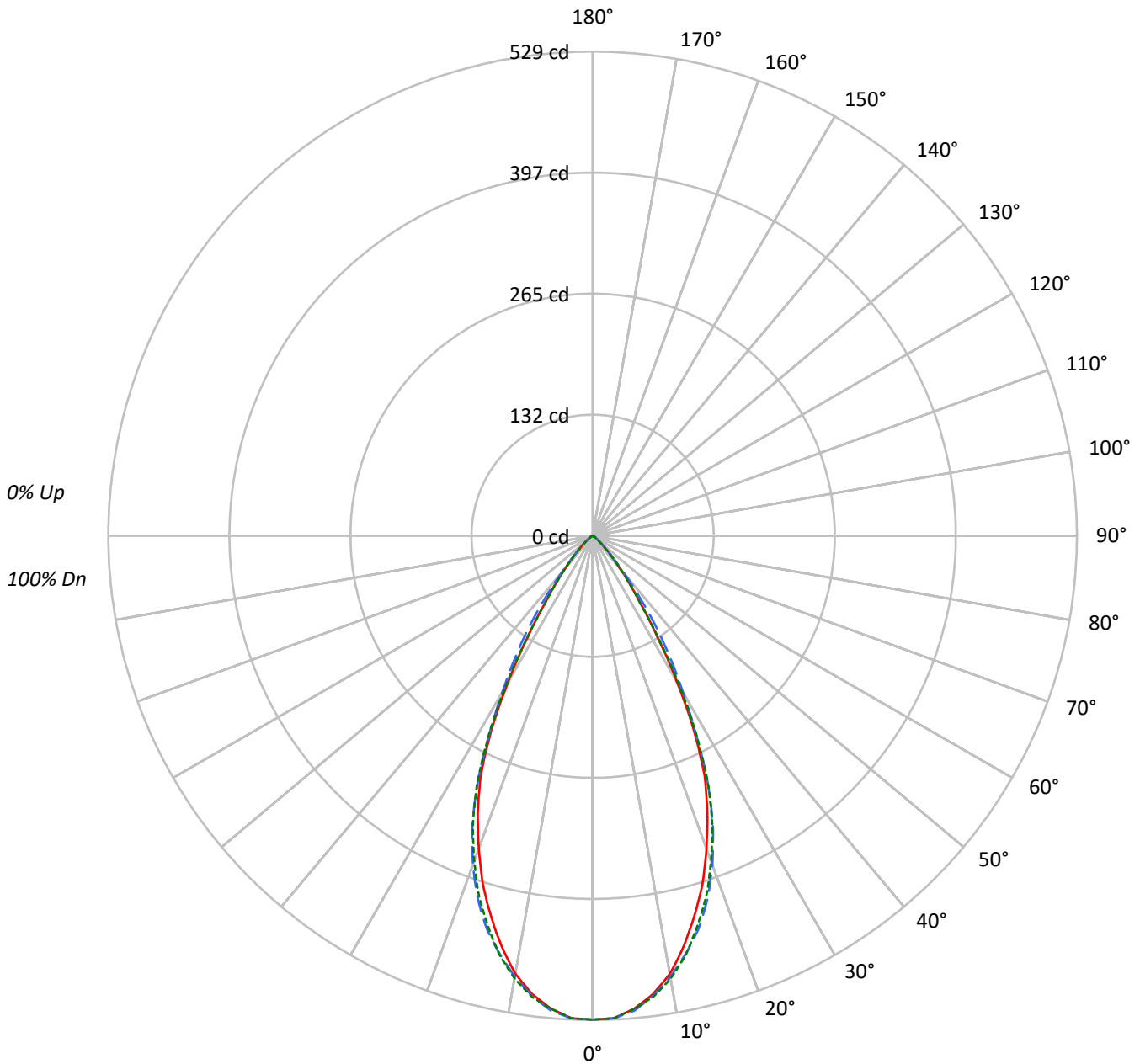
Input Watts (W): 6.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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

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

	0°	45°	90°
0°	819494	819494	819494
5°	807220	810332	807220
10°	765086	769808	772956
15°	689537	714892	708633
20°	599426	630436	623838
25°	494434	507945	509656
30°	329682	352591	342032
35°	178058	224796	174273
40°	94088	108252	96112
45°	45595	47787	45595
50°	21461	19050	21461
55°	13512	8107	13512
60°	9300	3100	9300
65°	7335	3668	7335
70°	4532	0	4532
75°	0	0	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 47787 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.6	12.3
10°-20°	122.3	31.0
20°-30°	132.3	33.6
30°-40°	67.7	17.2
40°-50°	17.9	4.5
50°-60°	3.9	1.0
60°-70°	1.3	0.3
70°-80°	0.2	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°	303.3	76.9
0°-40°	370.9	94.1
0°-60°	392.7	99.6
0°-90°	394.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	394.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	529	529	529	529	529	
5°	519	520	521	520	519	48
15°	430	436	446	443	442	120
25°	289	292	297	300	298	128
35°	94	100	119	103	92	63
45°	21	20	22	20	21	18
55°	5	4	3	4	5	5
65°	2	1	1	1	2	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	528.7	528.7	528.7	528.7	528.7
2.5°	527.7	527.7	527.7	527.7	527.7
5°	518.8	519.8	520.8	519.8	518.8
7.5°	504.9	504.9	506.9	507.9	507.9
10°	486.1	487.1	489.1	491.1	491.1
12.5°	459.4	464.4	468.3	467.3	469.3
15°	429.7	435.6	445.5	442.6	441.6
17.5°	399.0	405.9	416.8	413.9	412.9
20°	363.4	371.3	382.2	379.2	378.2
22.5°	327.7	334.6	343.6	343.6	341.6
25°	289.1	292.1	297.0	300.0	298.0
27.5°	239.6	246.5	244.6	249.5	245.5
30°	184.2	192.1	197.0	196.0	191.1
32.5°	133.7	143.6	156.4	147.5	136.6
35°	94.1	100.0	118.8	103.0	92.1
37.5°	66.3	69.3	83.2	68.3	66.3
40°	46.5	47.5	53.5	47.5	47.5
42.5°	31.7	31.7	33.7	31.7	31.7
45°	20.8	19.8	21.8	19.8	20.8
47.5°	13.9	12.9	12.9	12.9	12.9
50°	8.9	8.9	7.9	7.9	8.9
52.5°	6.9	5.9	5.0	5.9	5.9
55°	5.0	4.0	3.0	4.0	5.0
57.5°	3.0	3.0	2.0	3.0	3.0
60°	3.0	2.0	1.0	2.0	3.0
62.5°	2.0	2.0	1.0	2.0	2.0
65°	2.0	1.0	1.0	1.0	2.0
67.5°	1.0	1.0	1.0	1.0	1.0
70°	1.0	1.0	0.0	1.0	1.0
72.5°	1.0	1.0	0.0	0.0	1.0
75°	0.0	0.0	0.0	0.0	0.0
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



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Scaled Data Report







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

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