

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: P885793

Luminaire Tested: ML104LSFL95FS1E-TIR1D55WFL-TL1SDSLB-340LM-2700K

Issue Date: 6/19/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P885793  
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-2700K  
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER BAFFLED TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

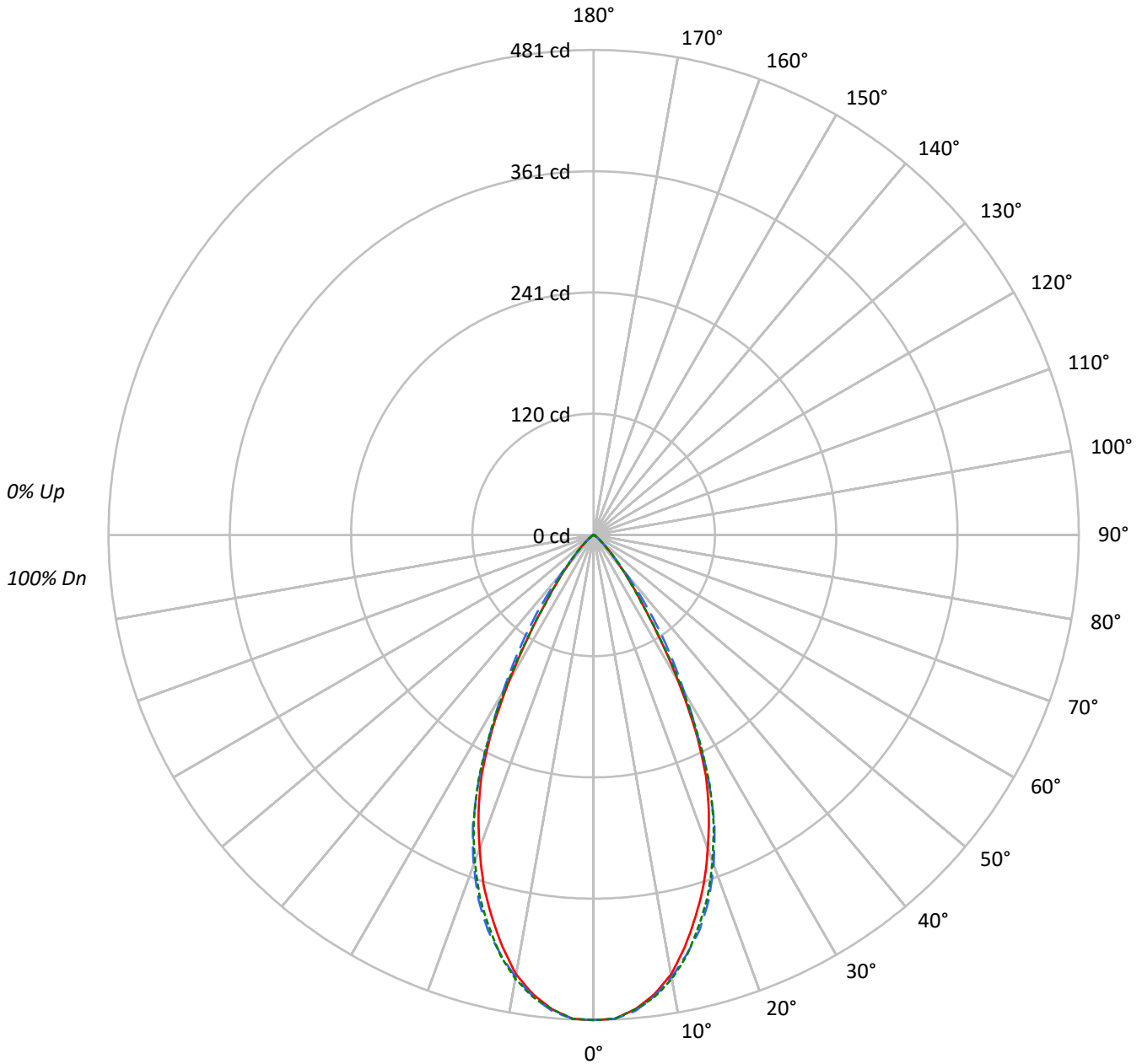
Lumens per Lamp: N/A  
Luminaire Lumens: 358.8 lumens  
Efficiency: N/A  
Efficacy: 58.8 lumens/watt  
Spacing Criteria (0/90/45): 0.81 / 0.84 / 0.81  
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')  
CIE Type: Direct

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	89	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°	745868	745868	745868
5°	734713	737514	734713
10°	696463	700713	703546
15°	627596	650704	644927
20°	545487	573694	567755
25°	449968	462282	463821
30°	299971	320912	311247
35°	161974	204549	158568
40°	85792	98540	87613
45°	41430	43403	41430
50°	19532	17362	19532
55°	12161	7296	12161
60°	8370	2790	8370
65°	6602	3301	6602
70°	4079	0	4079
75°	0	0	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 43403 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.3	12.3
10°-20°	111.3	31.0
20°-30°	120.4	33.6
30°-40°	61.6	17.2
40°-50°	16.2	4.5
50°-60°	3.6	1.0
60°-70°	1.2	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°	276.0	76.9
0°-40°	337.6	94.1
0°-60°	357.4	99.6
0°-90°	358.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	358.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	481	481	481	481	481	
5°	472	473	474	473	472	44
15°	391	396	406	403	402	109
25°	263	266	270	273	271	117
35°	86	91	108	94	84	57
45°	19	18	20	18	19	16
55°	4	4	3	4	4	4
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°	481.2	481.2	481.2	481.2	481.2
2.5°	480.3	480.3	480.3	480.3	480.3
5°	472.2	473.1	474.0	473.1	472.2
7.5°	459.6	459.6	461.4	462.3	462.3
10°	442.5	443.4	445.2	447.0	447.0
12.5°	418.1	422.6	426.2	425.3	427.1
15°	391.1	396.5	405.5	402.8	401.9
17.5°	363.2	369.5	379.4	376.7	375.8
20°	330.7	337.9	347.8	345.1	344.2
22.5°	298.3	304.6	312.7	312.7	310.9
25°	263.1	265.8	270.3	273.0	271.2
27.5°	218.1	224.4	222.6	227.1	223.5
30°	167.6	174.8	179.3	178.4	173.9
32.5°	121.7	130.7	142.4	134.3	124.4
35°	85.6	91.0	108.1	93.7	83.8
37.5°	60.4	63.1	75.7	62.2	60.4
40°	42.4	43.3	48.7	43.3	43.3
42.5°	28.8	28.8	30.6	28.8	28.8
45°	18.9	18.0	19.8	18.0	18.9
47.5°	12.6	11.7	11.7	11.7	11.7
50°	8.1	8.1	7.2	7.2	8.1
52.5°	6.3	5.4	4.5	5.4	5.4
55°	4.5	3.6	2.7	3.6	4.5
57.5°	2.7	2.7	1.8	2.7	2.7
60°	2.7	1.8	0.9	1.8	2.7
62.5°	1.8	1.8	0.9	1.8	1.8
65°	1.8	0.9	0.9	0.9	1.8
67.5°	0.9	0.9	0.9	0.9	0.9
70°	0.9	0.9	0.0	0.9	0.9
72.5°	0.9	0.9	0.0	0.0	0.9
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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