

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: P885777

Luminaire Tested: ML104LSFL95FS1E-TIR1D55WFL-TL1SDMBB-340LM-5000K

Issue Date: 6/19/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P885777  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-153)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/19/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML104LSFL95FS1E-TIR1D55WFL-TL1SDMBB-340LM-5000K  
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE BLACK BAFFLED TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

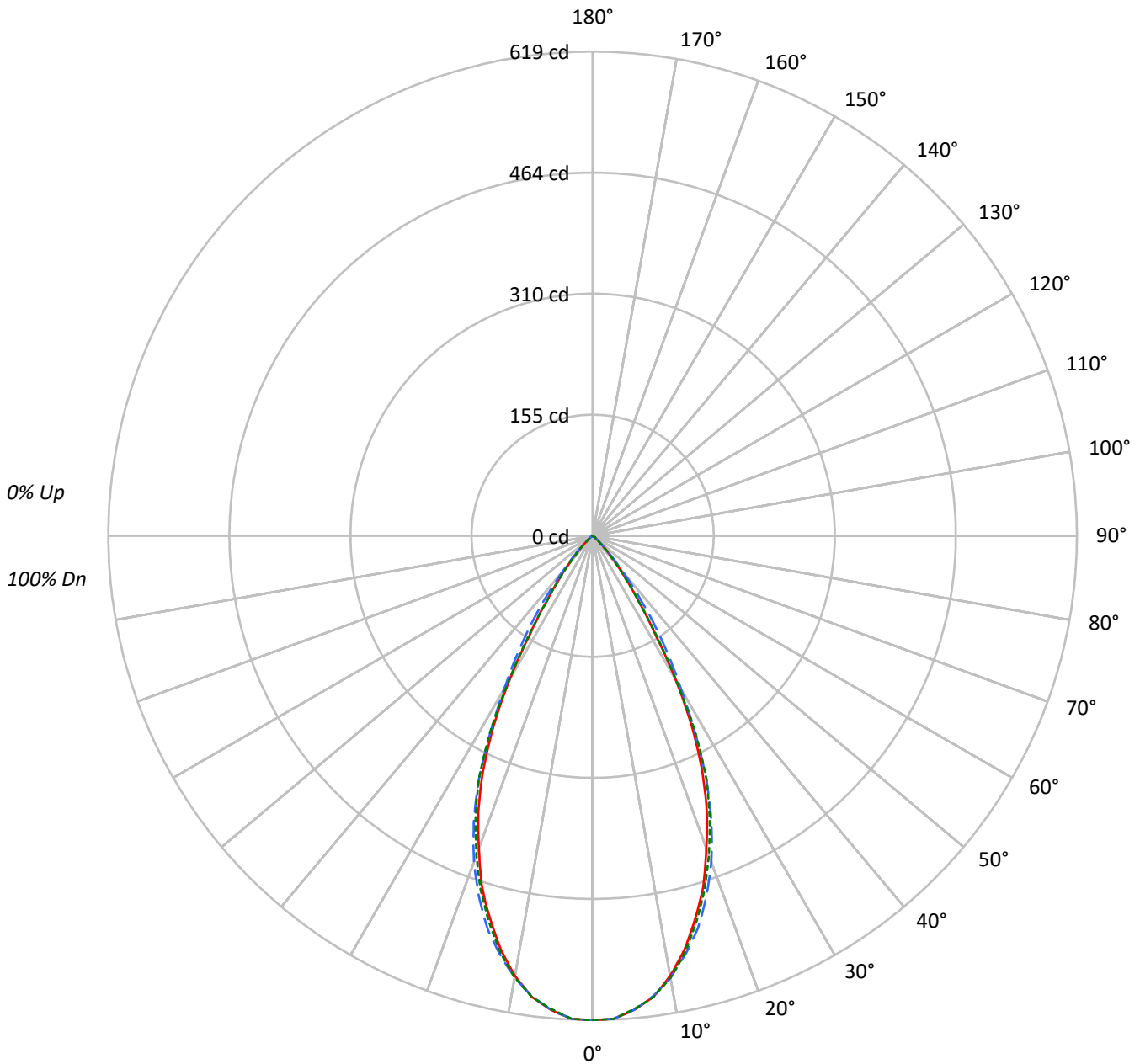
Lumens per Lamp: N/A  
Luminaire Lumens: 447.4 lumens  
Efficiency: N/A  
Efficacy: 73.3 lumens/watt  
Spacing Criteria (0/90/45): 0.81 / 0.83 / 0.8  
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')  
CIE Type: Direct

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



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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					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	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	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	88								
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	84	83								
4	99	92	87	83	97	91	86	82	89	84	81	87	83	80	85	82	79	78								
5	94	86	81	77	93	85	80	77	84	79	76	82	78	75	81	77	75	73								
6	90	82	76	72	88	81	75	72	79	75	71	78	74	71	77	73	70	69								
7	86	77	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	65								
8	82	73	67	64	81	72	67	63	71	67	63	70	66	63	69	66	63	61								
9	78	69	64	60	77	69	63	60	68	63	60	67	63	59	66	62	59	58								
10	75	66	60	57	74	65	60	57	65	60	56	64	59	56	63	59	56	55								

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

	0°	45°	90°
0°	959615	959615	959615
5°	946943	946943	945076
10°	899027	902648	902648
15°	813259	833960	820801
20°	700869	731715	716210
25°	566436	588498	588498
30°	379081	404317	381228
35°	197169	254693	194899
40°	99551	118369	94695
45°	38580	46252	38580
50°	14227	14227	11334
55°	3243	6215	6215
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 46252 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.0	12.7
10°-20°	142.7	31.9
20°-30°	152.5	34.1
30°-40°	75.9	17.0
40°-50°	17.2	3.8
50°-60°	2.1	0.5
60°-70°	0.0	0.0
70°-80°	0.0	0.0
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°	352.2	78.7
0°-40°	428.1	95.7
0°-60°	447.4	100.0
0°-90°	447.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	447.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	619	619	619	619	619	
5°	609	609	609	609	607	57
15°	507	512	520	516	512	141
25°	331	336	344	344	344	148
35°	104	112	135	115	103	69
45°	18	19	21	19	18	16
55°	1	2	2	2	2	2
65°	0	0	0	0	0	0
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°	619.1	619.1	619.1	619.1	619.1
2.5°	618.0	618.0	618.0	618.0	618.0
5°	608.6	608.6	608.6	608.6	607.4
7.5°	594.6	594.6	593.4	593.4	594.6
10°	571.2	572.3	573.5	573.5	573.5
12.5°	541.9	543.1	547.8	546.6	545.4
15°	506.8	511.5	519.7	516.2	511.5
17.5°	470.5	475.2	483.4	481.0	475.2
20°	424.9	430.7	443.6	438.9	434.2
22.5°	381.6	387.4	396.8	396.8	390.9
25°	331.2	335.9	344.1	344.1	344.1
27.5°	273.9	280.9	282.1	287.9	284.4
30°	211.8	221.2	225.9	224.7	213.0
32.5°	148.6	163.9	177.9	169.7	152.2
35°	104.2	112.4	134.6	114.7	103.0
37.5°	71.4	74.9	93.6	74.9	70.2
40°	49.2	50.3	58.5	51.5	46.8
42.5°	30.4	32.8	36.3	31.6	29.3
45°	17.6	18.7	21.1	18.7	17.6
47.5°	9.4	10.5	11.7	10.5	9.4
50°	5.9	5.9	5.9	5.9	4.7
52.5°	3.5	3.5	3.5	3.5	3.5
55°	1.2	2.3	2.3	2.3	2.3
57.5°	0.0	1.2	1.2	1.2	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
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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