

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: P885776

Luminaire Tested: ML104LSFL95FS1E-TIR1D55WFL-TL1SDMBB-340LM-4000K

Issue Date: 6/19/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P885776  
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-4000K  
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE BLACK BAFFLED TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

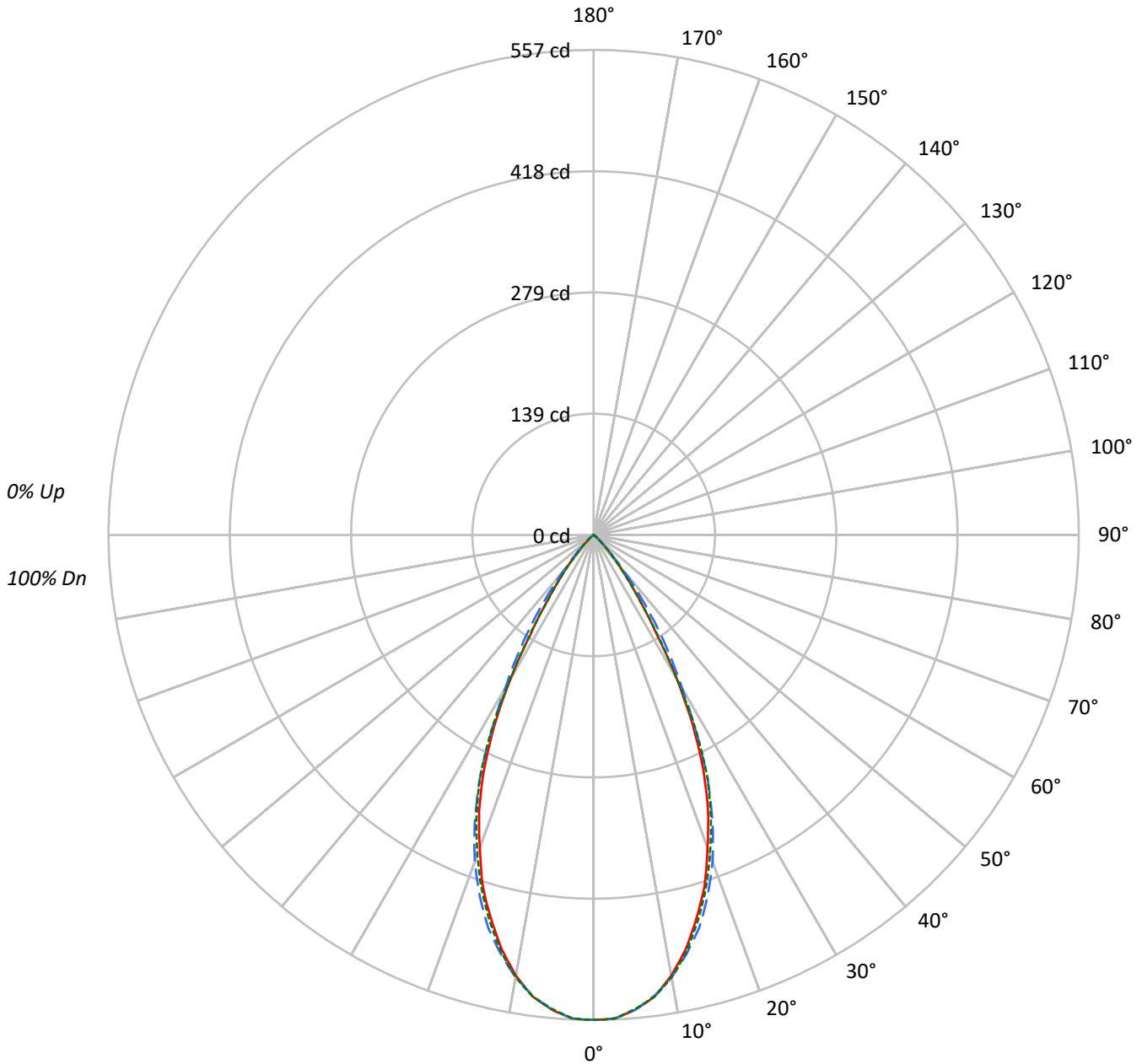
Lumens per Lamp: N/A  
Luminaire Lumens: 402.5 lumens  
Efficiency: N/A  
Efficacy: 66.0 lumens/watt  
Spacing Criteria (0/90/45): 0.81 / 0.83 / 0.8  
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')  
CIE Type: Direct

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				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	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	106	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°	863359	863359	863359
5°	851875	851875	850320
10°	808684	811989	811989
15°	731580	750195	738320
20°	630436	658313	644292
25°	509656	529495	529495
30°	341137	363688	342927
35°	177301	229148	175409
40°	89434	106431	85185
45°	34634	41649	34634
50°	12780	12780	10128
55°	2973	5675	5675
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: 41649 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.2	12.7
10°-20°	128.4	31.9
20°-30°	137.2	34.1
30°-40°	68.3	17.0
40°-50°	15.4	3.8
50°-60°	1.9	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°	316.8	78.7
0°-40°	385.2	95.7
0°-60°	402.5	100.0
0°-90°	402.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	402.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	557	557	557	557	557	
5°	548	548	548	548	546	51
15°	456	460	468	464	460	127
25°	298	302	310	310	310	133
35°	94	101	121	103	93	62
45°	16	17	19	17	16	14
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°	557.0	557.0	557.0	557.0	557.0
2.5°	556.0	556.0	556.0	556.0	556.0
5°	547.5	547.5	547.5	547.5	546.5
7.5°	534.9	534.9	533.8	533.8	534.9
10°	513.8	514.9	515.9	515.9	515.9
12.5°	487.5	488.6	492.8	491.7	490.7
15°	455.9	460.1	467.5	464.3	460.1
17.5°	423.3	427.5	434.9	432.8	427.5
20°	382.2	387.5	399.1	394.9	390.6
22.5°	343.3	348.5	356.9	356.9	351.7
25°	298.0	302.2	309.6	309.6	309.6
27.5°	246.4	252.7	253.8	259.0	255.9
30°	190.6	199.0	203.2	202.2	191.6
32.5°	133.7	147.4	160.0	152.7	136.9
35°	93.7	101.1	121.1	103.2	92.7
37.5°	64.2	67.4	84.2	67.4	63.2
40°	44.2	45.3	52.6	46.3	42.1
42.5°	27.4	29.5	32.6	28.4	26.3
45°	15.8	16.8	19.0	16.8	15.8
47.5°	8.4	9.5	10.5	9.5	8.4
50°	5.3	5.3	5.3	5.3	4.2
52.5°	3.2	3.2	3.2	3.2	3.2
55°	1.1	2.1	2.1	2.1	2.1
57.5°	0.0	1.1	1.1	1.1	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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