

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: P885771

Luminaire Tested: ML104LSFL95FS1E-TIR1D55WFL-TL1SDMB-340LM-4000K

Issue Date: 6/19/2024

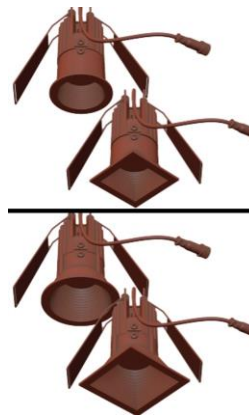
**Test Information**

Test Method: LM-79-2019  
Report Number: P885771  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-150)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/19/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML104LSFL95FS1E-TIR1D55WFL-TL1SDMB-340LM-4000K  
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE BLACK TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 398.2 lumens  
Efficiency: N/A  
Efficacy: 65.3 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

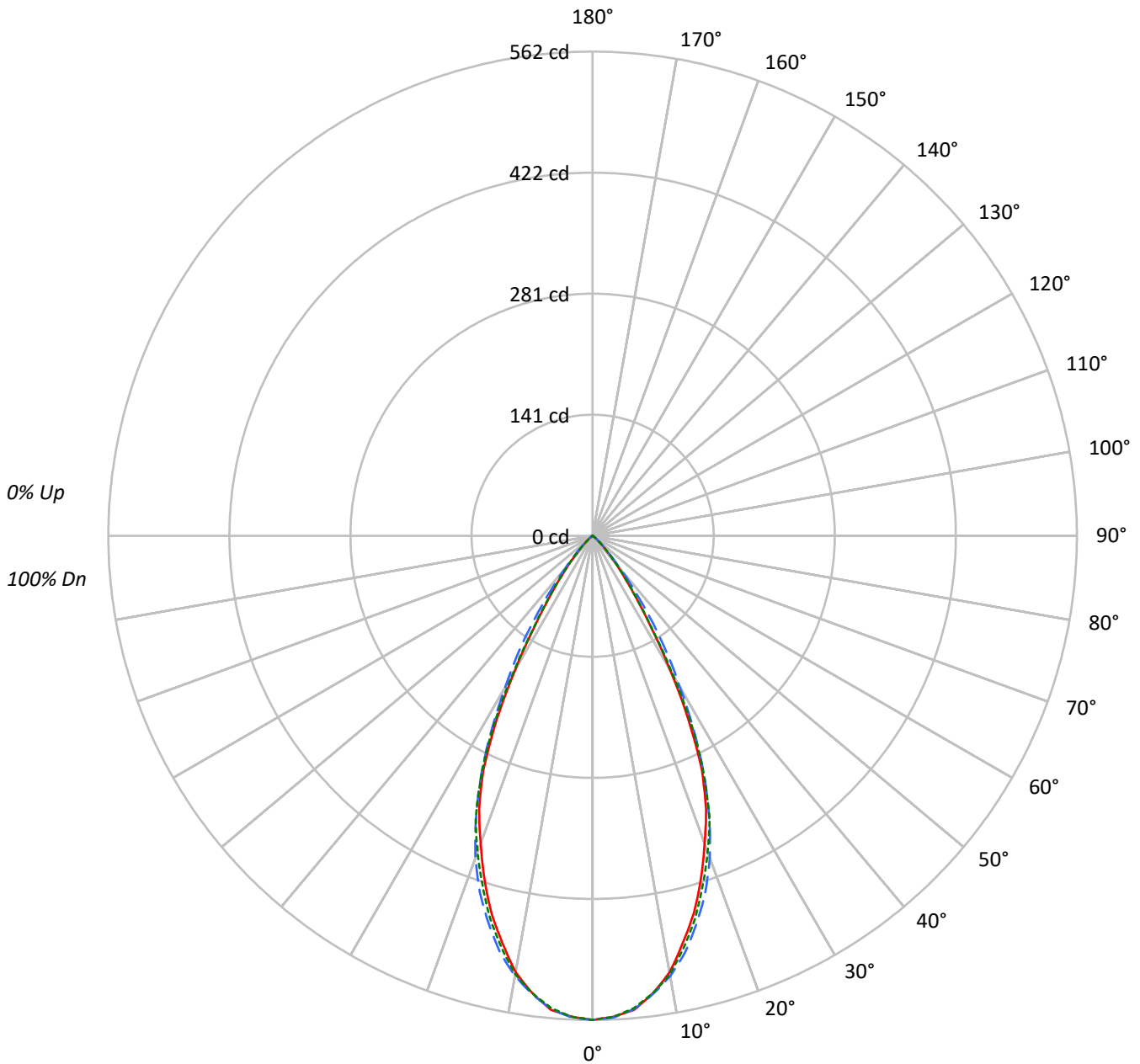
Input Watts (W): 6.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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

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

	0°	45°	90°
0°	870954	870954	870954
5°	859500	857944	856232
10°	809786	816554	813248
15°	727729	747948	737839
20°	626642	656003	643962
25°	512905	523680	521969
30°	321986	361541	333262
35°	165191	218930	171246
40°	82959	100158	82959
45°	34634	41430	34634
50°	10128	15192	12780
55°	2973	5675	2973
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: 41430 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.5	12.9
10°-20°	128.2	32.2
20°-30°	136.2	34.2
30°-40°	65.6	16.5
40°-50°	15.1	3.8
50°-60°	1.7	0.4
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°	315.8	79.3
0°-40°	381.4	95.8
0°-60°	398.2	100.0
0°-90°	398.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	398.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	562	562	562	562	562	
5°	552	551	551	551	550	51
15°	454	460	466	464	460	126
25°	300	302	306	312	305	132
35°	87	96	116	97	90	59
45°	16	17	19	17	16	14
55°	1	1	2	1	1	1
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°	561.9	561.9	561.9	561.9	561.9
2.5°	558.7	558.7	559.8	559.8	558.7
5°	552.4	551.4	551.4	551.4	550.3
7.5°	535.6	535.6	536.6	537.7	535.6
10°	514.5	515.6	518.8	516.7	516.7
12.5°	484.0	488.2	495.6	493.5	489.3
15°	453.5	459.8	466.1	464.0	459.8
17.5°	417.7	425.1	434.6	430.4	425.1
20°	379.9	386.2	397.7	393.5	390.4
22.5°	344.1	347.2	353.6	353.6	354.6
25°	299.9	302.0	306.2	312.5	305.2
27.5°	241.0	248.3	253.6	255.7	250.4
30°	179.9	191.5	202.0	198.9	186.2
32.5°	127.3	139.9	158.9	145.2	129.4
35°	87.3	95.8	115.7	96.8	90.5
37.5°	60.0	65.2	78.9	65.2	62.1
40°	41.0	44.2	49.5	44.2	41.0
42.5°	26.3	28.4	30.5	28.4	26.3
45°	15.8	16.8	18.9	16.8	15.8
47.5°	8.4	9.5	10.5	9.5	8.4
50°	4.2	5.3	6.3	5.3	5.3
52.5°	2.1	3.2	3.2	3.2	3.2
55°	1.1	1.1	2.1	1.1	1.1
57.5°	0.0	0.0	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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