

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: P885653

Luminaire Tested: ML104LSFL95FS1E-TIR1D25NFL-TL1SDMBB-340LM-2700K

Issue Date: 6/19/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P885653  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-141)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/19/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML104LSFL95FS1E-TIR1D25NFL-TL1SDMBB-340LM-2700K  
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK BAFFLED TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

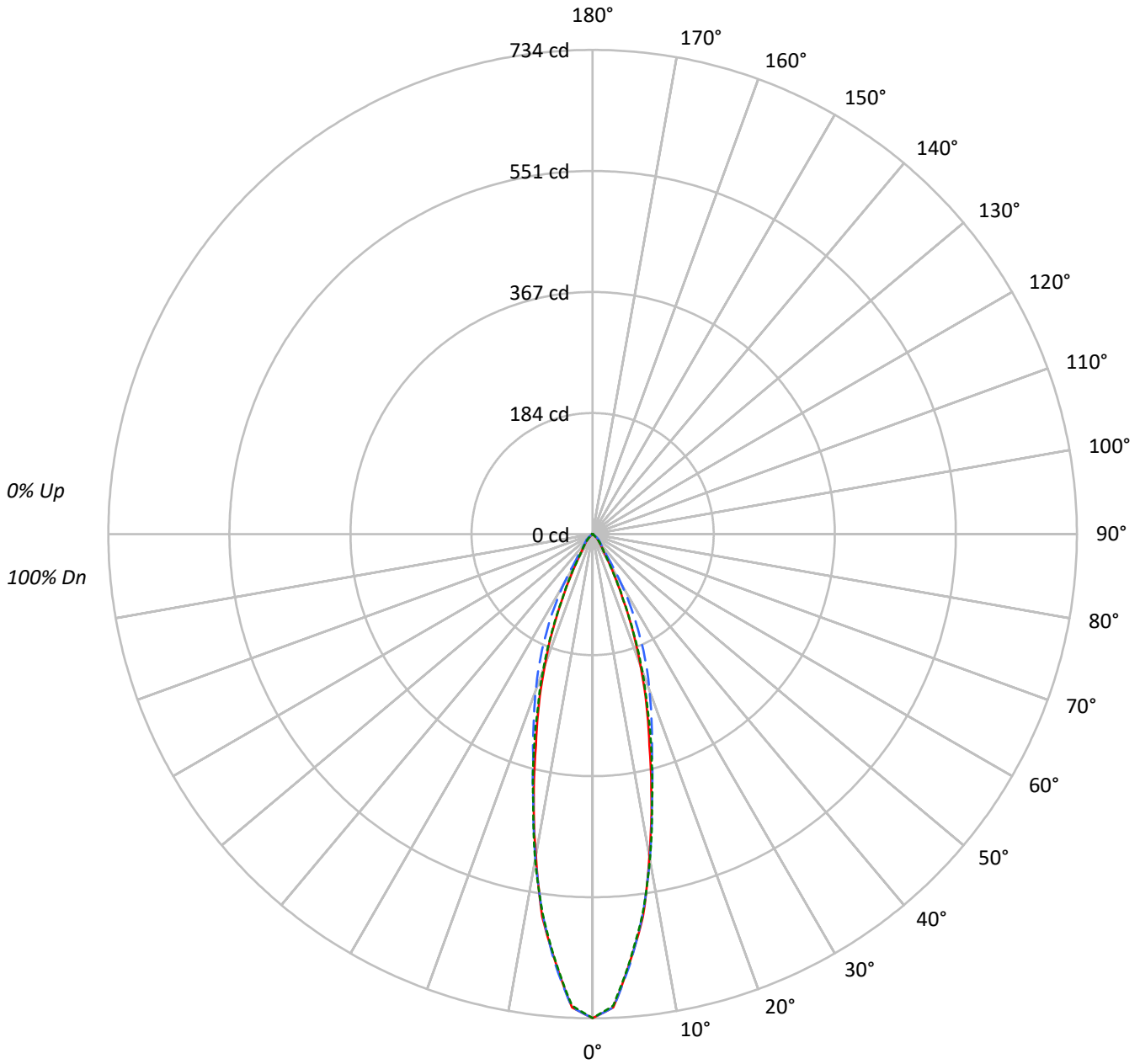
Lumens per Lamp: N/A  
Luminaire Lumens: 245.2 lumens  
Efficiency: N/A  
Efficacy: 40.2 lumens/watt  
Spacing Criteria (0/90/45): 0.46 / 0.47 / 0.55  
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')  
CIE Type: Direct

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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95								
2	110	106	102	100	108	104	101	98	101	99	96	98	96	94	95	94	92	91								
3	106	100	96	93	104	99	95	92	96	93	91	94	92	89	92	90	88	87								
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	89	86	84	83								
5	98	91	86	83	96	90	86	82	88	84	81	87	83	81	85	82	80	79								
6	94	87	82	78	93	86	81	78	85	81	78	83	80	77	82	79	77	75								
7	91	83	78	75	89	82	78	75	81	77	74	80	77	74	79	76	73	72								
8	87	80	75	71	86	79	75	71	78	74	71	77	74	71	76	73	70	69								
9	84	77	72	68	83	76	72	68	75	71	68	74	71	68	74	70	68	67								
10	82	74	69	66	81	73	69	66	73	68	66	72	68	65	71	68	65	64								

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

	0°	45°	90°
0°	1137247	1137247	1137247
5°	1012448	1016649	1009648
10°	780196	785862	788695
15°	532277	558273	552496
20°	349363	414847	361239
25°	185049	285099	188128
30°	85553	154818	83942
35°	45981	56199	45981
40°	30958	38242	32779
45°	19728	29593	19728
50°	4341	21703	4341
55°	2432	2432	2432
60°	2790	0	2790
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: 29593 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.5	23.5
10°-20°	96.0	39.2
20°-30°	62.1	25.3
30°-40°	20.2	8.2
40°-50°	7.9	3.2
50°-60°	1.3	0.5
60°-70°	0.1	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°	215.7	88.0
0°-40°	235.9	96.2
0°-60°	245.1	100.0
0°-90°	245.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	245.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	734	734	734	734	734	
5°	651	653	653	649	649	58
15°	332	341	348	346	344	93
25°	108	130	167	131	110	52
35°	24	31	30	30	24	16
45°	9	10	14	11	9	6
55°	1	1	1	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°	733.7	733.7	733.7	733.7	733.7
2.5°	718.3	716.5	718.3	715.6	715.6
5°	650.7	653.4	653.4	648.9	648.9
7.5°	584.9	583.1	581.3	577.7	580.4
10°	495.7	493.9	499.3	502.0	501.1
12.5°	411.9	411.9	415.5	423.6	416.4
15°	331.7	340.7	347.9	346.1	344.3
17.5°	271.3	280.3	296.5	287.5	276.7
20°	211.8	228.0	251.5	231.6	219.0
22.5°	159.5	178.5	210.0	181.2	162.2
25°	108.2	129.8	166.7	130.7	110.0
27.5°	71.2	85.6	127.1	88.3	73.0
30°	47.8	59.5	86.5	58.6	46.9
32.5°	31.5	43.3	50.5	42.4	32.4
35°	24.3	30.6	29.7	29.7	24.3
37.5°	18.9	22.5	22.5	21.6	19.8
40°	15.3	16.2	18.9	16.2	16.2
42.5°	11.7	13.5	16.2	13.5	12.6
45°	9.0	9.9	13.5	10.8	9.0
47.5°	2.7	6.3	11.7	6.3	2.7
50°	1.8	1.8	9.0	1.8	1.8
52.5°	1.8	0.9	4.5	0.9	1.8
55°	0.9	0.9	0.9	0.9	0.9
57.5°	0.9	0.9	0.9	0.9	0.9
60°	0.9	0.0	0.0	0.9	0.9
62.5°	0.9	0.0	0.0	0.0	0.9
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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