

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: P885654

Luminaire Tested: ML104LSFL95FS1E-TIR1D25NFL-TL1SDMBB-340LM-3000K

Issue Date: 6/19/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P885654  
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-3000K  
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK BAFFLED TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

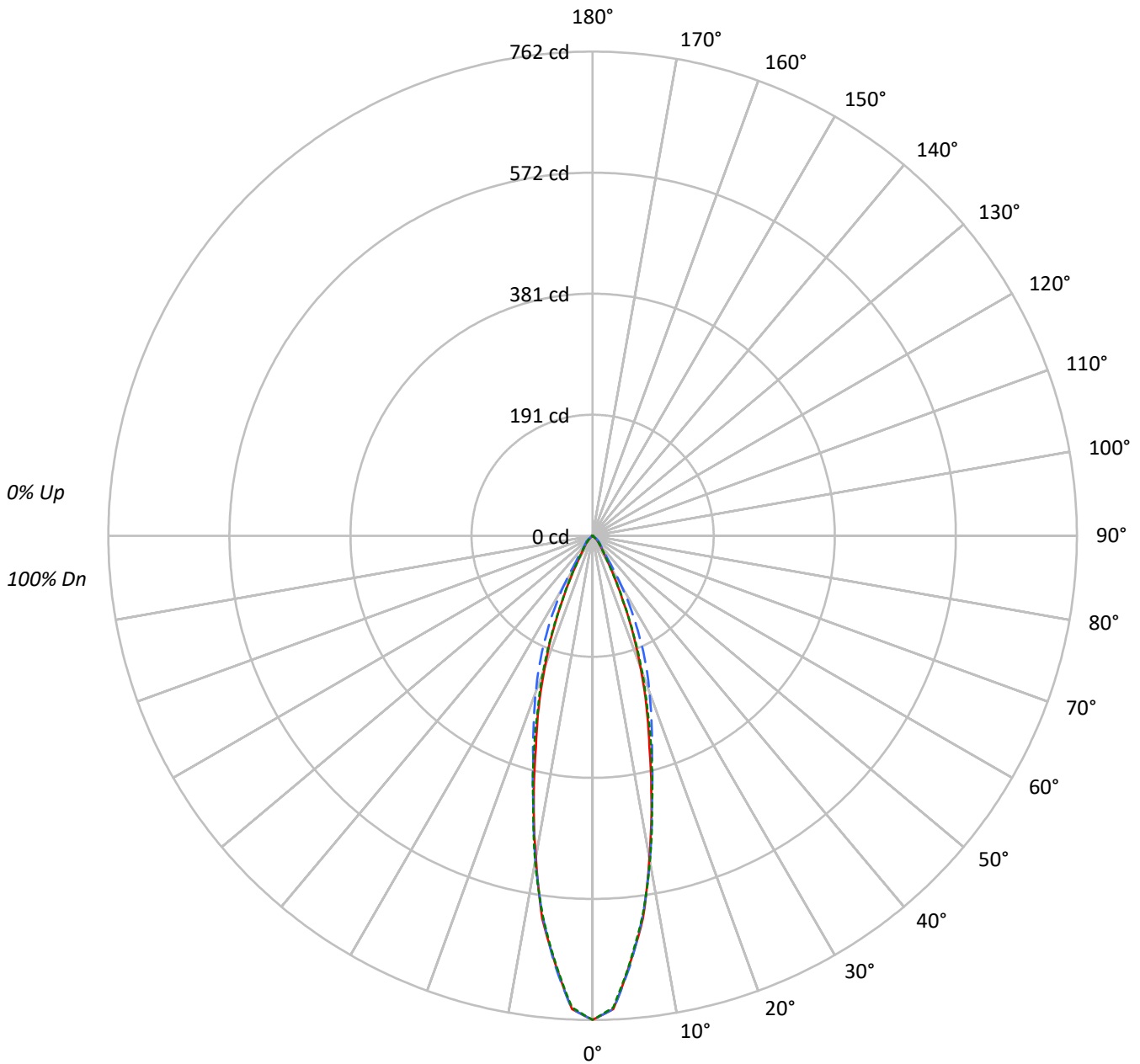
Lumens per Lamp: N/A  
Luminaire Lumens: 254.6 lumens  
Efficiency: N/A  
Efficacy: 41.7 lumens/watt  
Spacing Criteria (0/90/45): 0.46 / 0.47 / 0.55  
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')  
CIE Type: Direct

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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95					95			
2	110	106	102	100	108	104	101	98	101	99	96	98	96	94	95	94	92	91					91			
3	106	100	96	93	104	99	95	92	96	93	91	94	92	89	92	90	88	87					87			
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	89	86	84	83					83			
5	98	91	86	83	96	90	86	82	88	84	81	87	83	81	85	82	80	79					79			
6	94	87	82	78	93	86	81	78	85	81	78	83	80	77	82	79	77	75					75			
7	91	83	78	75	89	82	78	75	81	77	74	80	77	74	79	76	73	72					72			
8	87	80	75	71	86	79	75	71	78	74	71	77	73	71	76	73	70	69					69			
9	84	77	72	68	83	76	72	68	75	71	68	74	71	68	74	70	68	67					67			
10	82	74	69	66	81	73	69	66	73	68	66	72	68	65	71	68	65	64					64			

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

	0°	45°	90°
0°	1180647	1180647	1180647
5°	1051191	1055548	1048390
10°	810101	815924	818915
15°	552657	579616	573678
20°	362723	430683	375095
25°	192061	296045	195311
30°	88774	160724	87163
35°	47873	58470	47873
40°	32172	39861	33993
45°	20605	30689	20605
50°	4582	22667	4582
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: 30689 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.7	23.5
10°-20°	99.7	39.2
20°-30°	64.5	25.3
30°-40°	21.0	8.2
40°-50°	8.2	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°	223.9	88.0
0°-40°	244.9	96.2
0°-60°	254.4	100.0
0°-90°	254.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	254.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	762	762	762	762	762	
5°	676	678	678	674	674	60
15°	344	354	361	359	358	96
25°	112	135	173	136	114	54
35°	25	32	31	31	25	17
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°	761.7	761.7	761.7	761.7	761.7
2.5°	745.8	743.9	745.8	743.0	743.0
5°	675.6	678.4	678.4	673.8	673.8
7.5°	607.3	605.4	603.6	599.8	602.6
10°	514.7	512.8	518.4	521.2	520.3
12.5°	427.7	427.7	431.4	439.8	432.3
15°	344.4	353.7	361.2	359.3	357.5
17.5°	281.7	291.0	307.9	298.5	287.3
20°	219.9	236.8	261.1	240.5	227.4
22.5°	165.6	185.3	218.0	188.1	168.4
25°	112.3	134.8	173.1	135.7	114.2
27.5°	73.9	88.9	131.9	91.7	75.8
30°	49.6	61.8	89.8	60.8	48.7
32.5°	32.8	44.9	52.4	44.0	33.7
35°	25.3	31.8	30.9	30.9	25.3
37.5°	19.7	23.4	23.4	22.5	20.6
40°	15.9	16.8	19.7	16.8	16.8
42.5°	12.2	14.0	16.8	14.0	13.1
45°	9.4	10.3	14.0	11.2	9.4
47.5°	2.8	6.6	12.2	6.6	2.8
50°	1.9	1.9	9.4	1.9	1.9
52.5°	1.9	0.9	4.7	0.9	1.9
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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