

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: P885652

Luminaire Tested: ML104LSFL95FS1E-TIR1D25NFL-TL1SDMB-340LM-5000K

Issue Date: 6/19/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P885652  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-138)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/19/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML104LSFL95FS1E-TIR1D25NFL-TL1SDMB-340LM-5000K  
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

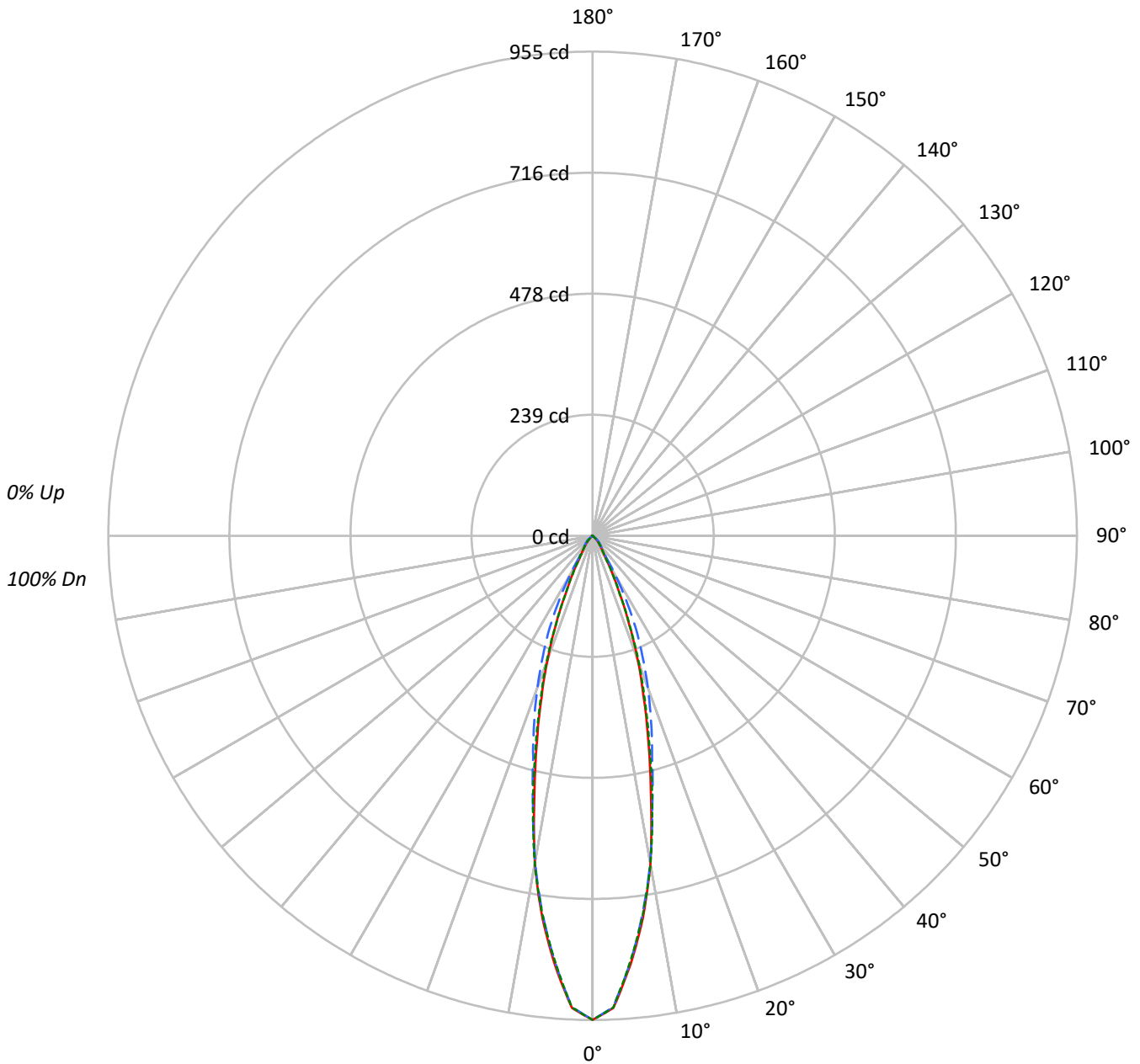
Lumens per Lamp: N/A  
Luminaire Lumens: 305.8 lumens  
Efficiency: N/A  
Efficacy: 50.1 lumens/watt  
Spacing Criteria (0/90/45): 0.46 / 0.47 / 0.54  
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')  
CIE Type: Direct

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									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	115	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96																			
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91																			
3	106	101	97	93	104	99	96	93	97	94	91	94	92	90	92	90	88	87																			
4	102	96	91	88	100	95	91	87	93	89	86	91	88	85	89	87	84	83																			
5	98	91	87	83	97	91	86	83	89	85	82	87	84	81	86	83	81	80																			
6	95	87	83	79	93	87	82	79	85	81	78	84	81	78	83	80	77	76																			
7	91	84	79	76	90	83	79	75	82	78	75	81	77	75	80	77	74	73																			
8	88	80	76	72	87	80	75	72	79	75	72	78	74	72	77	74	71	70																			
9	85	77	73	69	84	77	72	69	76	72	69	75	72	69	75	71	69	68																			
10	82	75	70	67	81	74	70	67	73	69	67	73	69	66	72	69	66	65																			

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

	0°	45°	90°
0°	1479955	1479955	1479955
5°	1323480	1316167	1314300
10°	1032654	1028877	1034543
15°	682477	727569	695635
20°	427054	523714	438600
25°	216347	342564	216347
30°	96470	157324	98618
35°	57713	64335	57713
40°	37838	47348	40266
45°	17975	35950	20605
50°	5546	22667	5546
55°	3243	3243	3243
60°	3720	0	3720
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: 35950 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.9	24.5
10°-20°	123.1	40.3
20°-30°	73.6	24.1
30°-40°	23.7	7.8
40°-50°	9.2	3.0
50°-60°	1.2	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°	271.6	88.8
0°-40°	295.4	96.6
0°-60°	305.7	100.0
0°-90°	305.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	305.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	955	955	955	955	955	
5°	851	853	846	847	845	75
15°	425	438	453	444	434	118
25°	126	148	200	154	126	62
35°	30	36	34	36	30	20
45°	8	12	16	12	9	7
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°	954.8	954.8	954.8	954.8	954.8
2.5°	932.6	931.4	930.2	931.4	931.4
5°	850.6	852.9	845.9	847.0	844.7
7.5°	760.4	758.0	753.3	756.8	755.7
10°	656.1	649.1	653.7	653.7	657.3
12.5°	530.7	541.3	543.6	542.4	542.4
15°	425.3	438.2	453.4	444.0	433.5
17.5°	335.1	356.2	383.1	362.0	343.3
20°	258.9	280.0	317.5	283.5	265.9
22.5°	187.5	213.2	256.6	215.6	189.8
25°	126.5	147.6	200.3	153.5	126.5
27.5°	85.5	100.8	140.6	101.9	84.4
30°	53.9	72.6	87.9	71.5	55.1
32.5°	38.7	51.5	49.2	51.5	39.8
35°	30.5	36.3	34.0	36.3	30.5
37.5°	23.4	26.9	28.1	26.9	24.6
40°	18.7	19.9	23.4	21.1	19.9
42.5°	14.1	16.4	19.9	16.4	15.2
45°	8.2	11.7	16.4	11.7	9.4
47.5°	2.3	5.9	14.1	5.9	2.3
50°	2.3	1.2	9.4	1.2	2.3
52.5°	1.2	1.2	3.5	1.2	1.2
55°	1.2	1.2	1.2	1.2	1.2
57.5°	1.2	0.0	0.0	1.2	1.2
60°	1.2	0.0	0.0	0.0	1.2
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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