

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: P885774

Luminaire Tested: ML104LSFL95FS1E-TIR1D55WFL-TL1SDMBB-340LM-3000K

Issue Date: 6/19/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P885774  
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-3000K  
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE BLACK BAFFLED TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

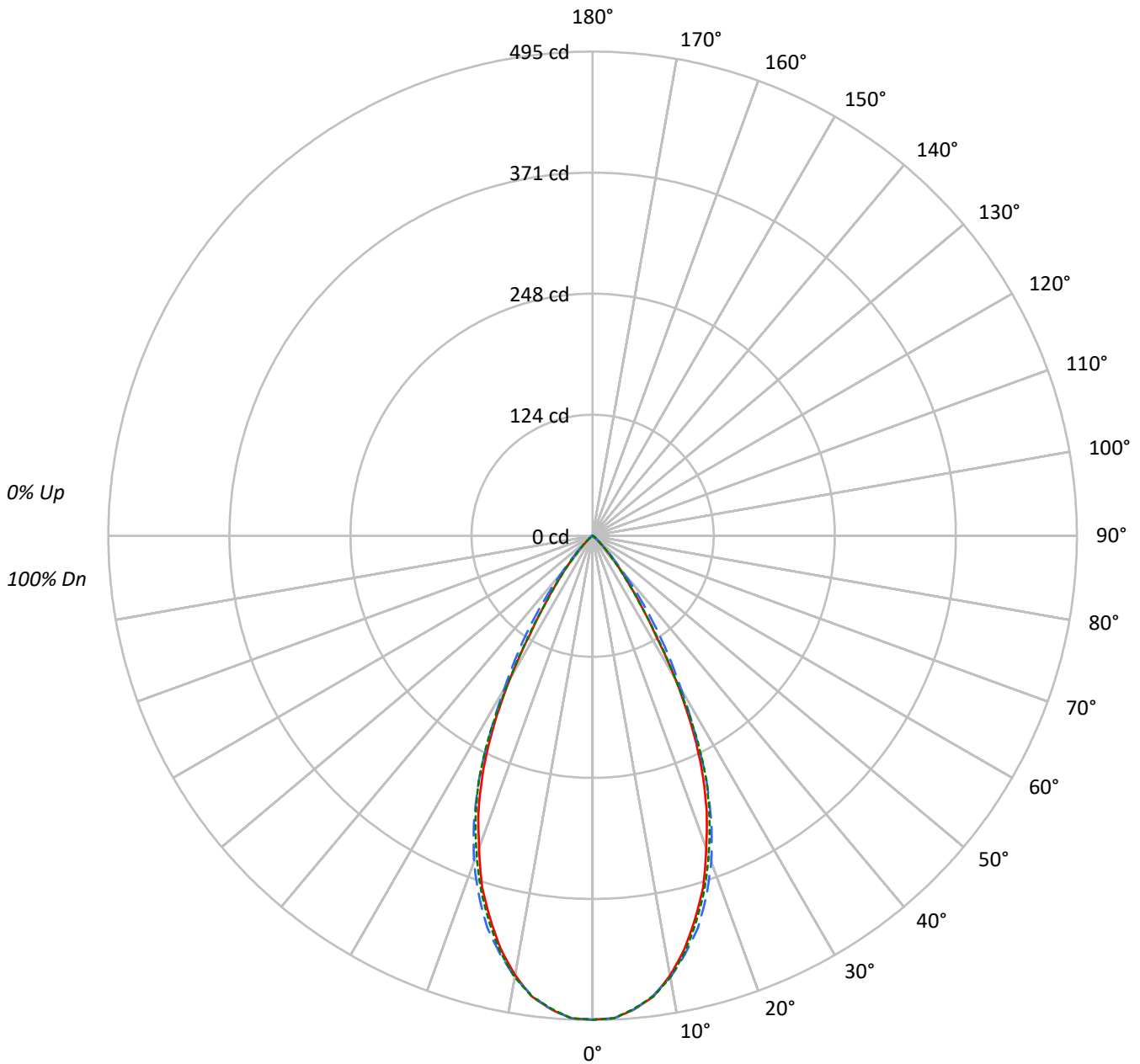
Lumens per Lamp: N/A  
Luminaire Lumens: 357.4 lumens  
Efficiency: N/A  
Efficacy: 58.6 lumens/watt  
Spacing Criteria (0/90/45): 0.81 / 0.83 / 0.8  
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')  
CIE Type: Direct

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	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	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94					94			
2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	88					88			
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	84	83					83			
4	99	92	87	83	97	91	86	82	89	84	81	87	83	80	85	82	79	78					78			
5	94	86	81	77	93	85	80	77	84	79	76	82	78	75	81	77	75	73					73			
6	90	82	76	72	88	81	75	72	79	75	71	78	74	71	77	73	70	69					69			
7	86	77	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	65					65			
8	82	73	67	64	81	72	67	63	71	67	63	70	66	63	69	66	63	61					61			
9	78	69	64	60	77	69	63	60	68	63	60	67	63	59	66	62	59	58					58			
10	75	66	60	57	74	65	60	57	65	60	56	64	59	56	63	59	56	55					55			

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

	0°	45°	90°
0°	766793	766793	766793
5°	756497	756497	755096
10°	718183	721174	721174
15°	649741	666269	655678
20°	559838	584580	572209
25°	452533	470149	470149
30°	302835	323060	304625
35°	157433	203414	155730
40°	79520	94695	75675
45°	30689	36827	30689
50°	11334	11334	8922
55°	2432	5135	5135
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: 36827 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.5	12.7
10°-20°	114.0	31.9
20°-30°	121.8	34.1
30°-40°	60.7	17.0
40°-50°	13.7	3.8
50°-60°	1.7	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°	281.4	78.7
0°-40°	342.0	95.7
0°-60°	357.4	100.0
0°-90°	357.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	357.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	495	495	495	495	495	
5°	486	486	486	486	485	46
15°	405	409	415	412	409	113
25°	265	268	275	275	275	118
35°	83	90	108	92	82	55
45°	14	15	17	15	14	13
55°	1	2	2	2	2	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°	494.7	494.7	494.7	494.7	494.7
2.5°	493.7	493.7	493.7	493.7	493.7
5°	486.2	486.2	486.2	486.2	485.3
7.5°	475.0	475.0	474.1	474.1	475.0
10°	456.3	457.3	458.2	458.2	458.2
12.5°	432.9	433.9	437.6	436.7	435.7
15°	404.9	408.6	415.2	412.4	408.6
17.5°	375.9	379.6	386.2	384.3	379.6
20°	339.4	344.1	354.4	350.7	346.9
22.5°	304.8	309.5	317.0	317.0	312.3
25°	264.6	268.4	274.9	274.9	274.9
27.5°	218.8	224.4	225.4	230.0	227.2
30°	169.2	176.7	180.5	179.5	170.2
32.5°	118.8	130.9	142.1	135.6	121.6
35°	83.2	89.8	107.5	91.6	82.3
37.5°	57.0	59.8	74.8	59.8	56.1
40°	39.3	40.2	46.8	41.1	37.4
42.5°	24.3	26.2	29.0	25.2	23.4
45°	14.0	15.0	16.8	15.0	14.0
47.5°	7.5	8.4	9.4	8.4	7.5
50°	4.7	4.7	4.7	4.7	3.7
52.5°	2.8	2.8	2.8	2.8	2.8
55°	0.9	1.9	1.9	1.9	1.9
57.5°	0.0	0.9	0.9	0.9	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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