

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: P885792

Luminaire Tested: ML104LSFL95FS1E-TIR1D55WFL-TL1SDSL-340LM-5000K

Issue Date: 6/19/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P885792  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-149)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/19/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML104LSFL95FS1E-TIR1D55WFL-TL1SDSL-340LM-5000K  
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

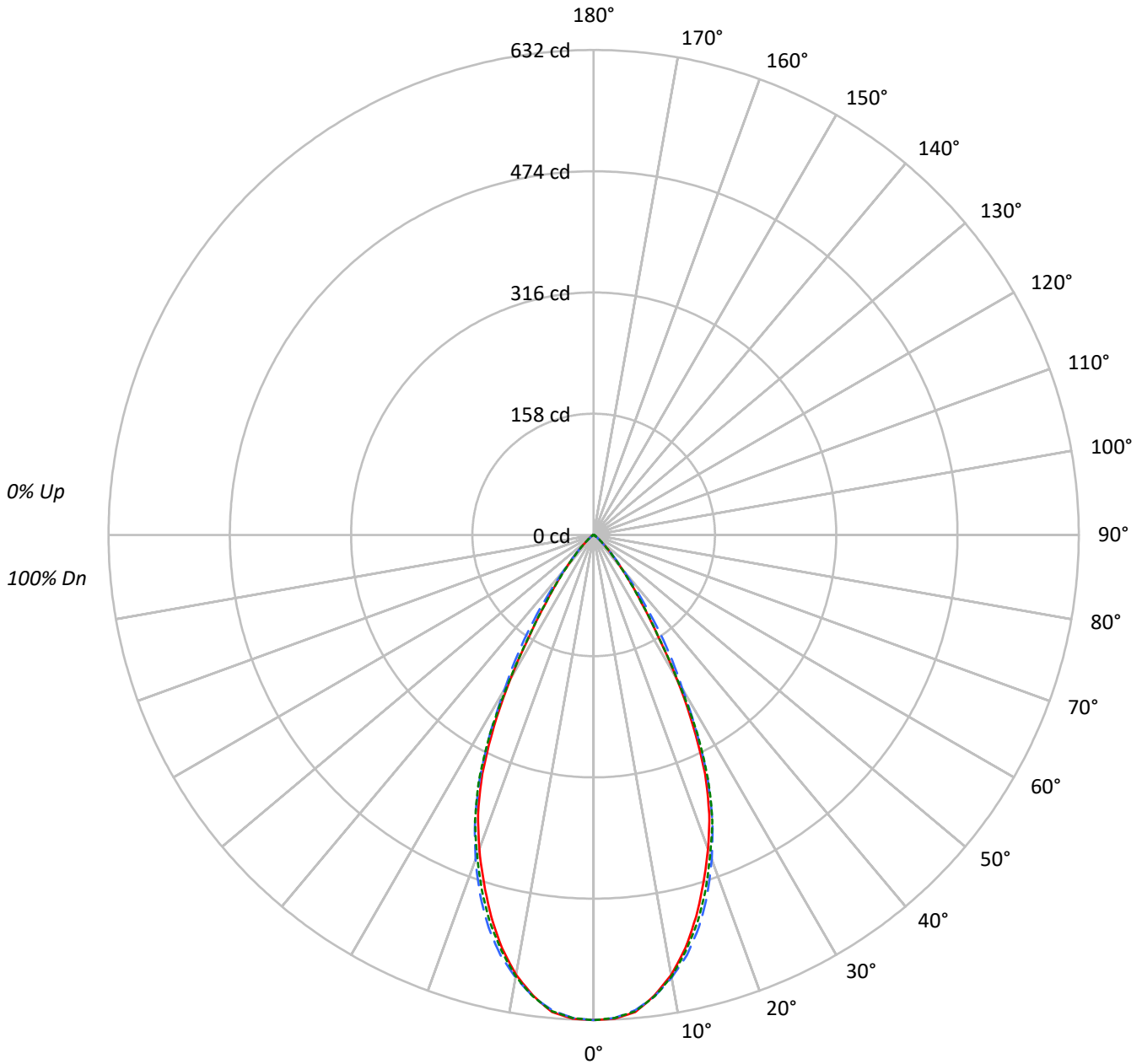
Lumens per Lamp: N/A  
Luminaire Lumens: 464.7 lumens  
Efficiency: N/A  
Efficacy: 76.2 lumens/watt  
Spacing Criteria (0/90/45): 0.82 / 0.83 / 0.8  
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')  
CIE Type: Direct

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	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88		
3	103	97	92	89	101	96	91	88	93	90	87	91	88	85	89	86	84	82		
4	98	91	86	82	97	90	85	81	88	84	81	86	82	80	84	81	79	77		
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	72		
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68		
7	85	76	71	67	84	76	70	67	75	70	66	73	69	66	72	68	65	64		
8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	61		
9	78	69	63	59	77	68	63	59	67	62	59	66	62	59	66	61	58	57		
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	62	58	55	54		

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

	0°	45°	90°
0°	980075	980075	980075
5°	971060	967482	969349
10°	916026	921535	919646
15°	826739	849365	838132
20°	718519	741777	732045
25°	586788	600812	604746
30°	387672	412908	393936
35°	206063	256964	210415
40°	111287	120797	109061
45°	53925	53925	51294
50°	25320	19773	25320
55°	12701	9458	12701
60°	7130	3720	7130
65°	4401	4401	4401
70°	5438	5438	5438
75°	7187	0	7187
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 53925 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.2	12.5
10°-20°	145.4	31.3
20°-30°	156.5	33.7
30°-40°	78.2	16.8
40°-50°	20.5	4.4
50°-60°	4.1	0.9
60°-70°	1.4	0.3
70°-80°	0.5	0.1
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°	360.1	77.5
0°-40°	438.3	94.3
0°-60°	462.9	99.6
0°-90°	464.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	464.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	632	632	632	632	632	
5°	624	621	622	623	623	58
15°	515	520	529	526	522	143
25°	343	348	351	355	354	152
35°	109	117	136	117	111	73
45°	25	23	25	23	23	21
55°	5	4	4	5	5	5
65°	1	1	1	1	1	2
75°	1	0	0	0	1	1
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°	632.3	632.3	632.3	632.3	632.3
2.5°	631.2	630.0	630.0	631.2	630.0
5°	624.1	620.6	621.8	623.0	623.0
7.5°	605.4	605.4	606.6	607.7	606.6
10°	582.0	583.2	585.5	586.7	584.3
12.5°	551.5	553.9	560.9	558.6	555.0
15°	515.2	519.9	529.3	525.8	522.3
17.5°	475.4	482.4	491.8	489.5	484.8
20°	435.6	440.3	449.7	449.7	443.8
22.5°	393.5	398.1	404.0	406.3	404.0
25°	343.1	347.8	351.3	354.8	353.6
27.5°	281.0	289.2	291.6	295.1	292.7
30°	216.6	223.7	230.7	229.5	220.1
32.5°	154.6	162.8	183.8	168.6	155.7
35°	108.9	117.1	135.8	117.1	111.2
37.5°	79.6	78.5	92.5	79.6	78.5
40°	55.0	56.2	59.7	55.0	53.9
42.5°	37.5	36.3	38.6	37.5	36.3
45°	24.6	23.4	24.6	23.4	23.4
47.5°	15.2	14.1	14.1	14.1	15.2
50°	10.5	9.4	8.2	9.4	10.5
52.5°	7.0	5.9	5.9	5.9	7.0
55°	4.7	3.5	3.5	4.7	4.7
57.5°	3.5	2.3	2.3	2.3	3.5
60°	2.3	2.3	1.2	2.3	2.3
62.5°	2.3	1.2	1.2	1.2	2.3
65°	1.2	1.2	1.2	1.2	1.2
67.5°	1.2	1.2	1.2	1.2	1.2
70°	1.2	1.2	1.2	1.2	1.2
72.5°	1.2	1.2	0.0	1.2	1.2
75°	1.2	0.0	0.0	0.0	1.2
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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