

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: P885701

Luminaire Tested: ML104LSFL95FS1E-TIR1D40FL-TL1RDSL-340LM-4000K

Issue Date: 6/19/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P885701  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-125)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/19/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML104LSFL95FS1E-TIR1D40FL-TL1RDSL-340LM-4000K  
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

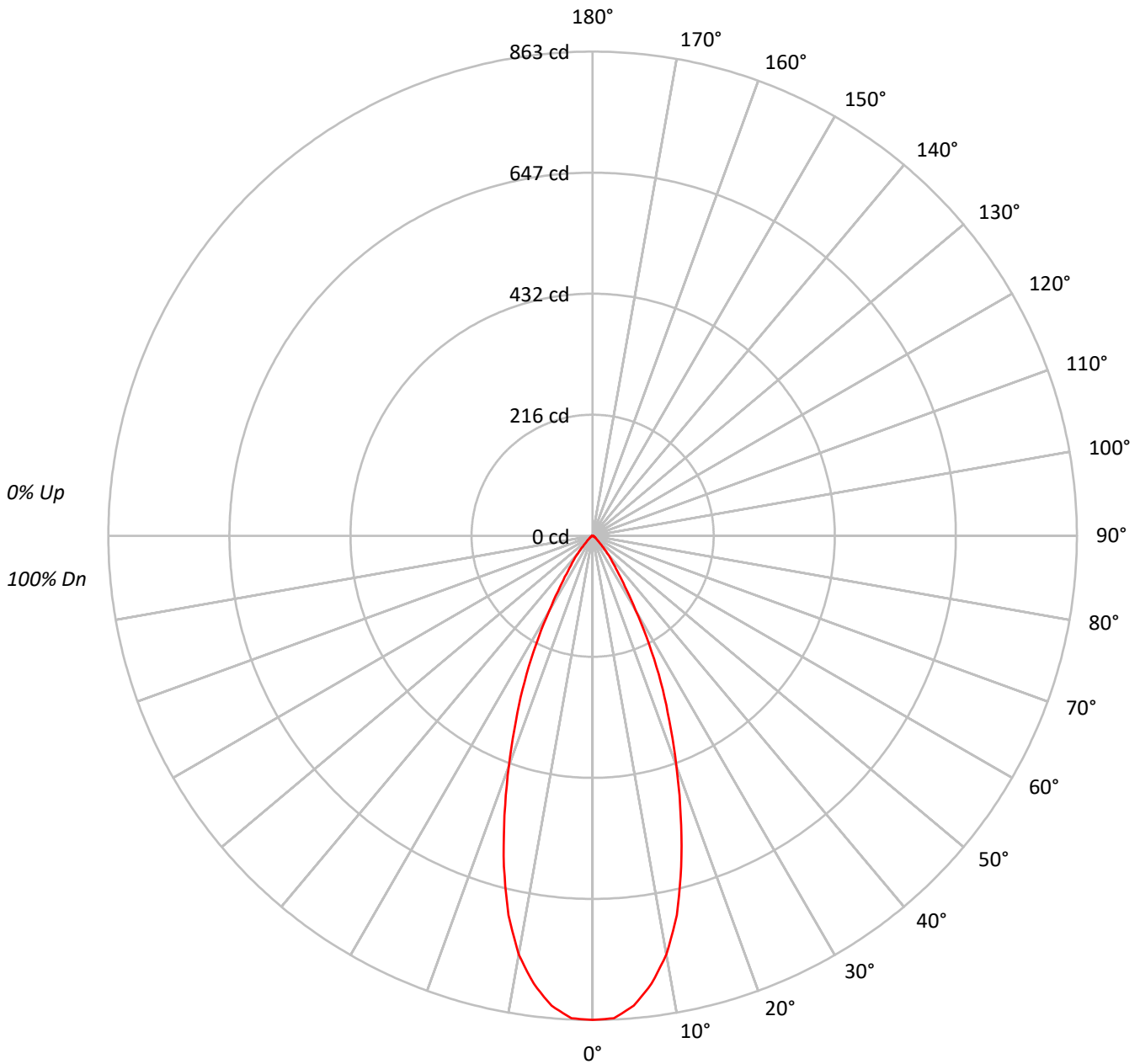
Lumens per Lamp: N/A  
Luminaire Lumens: 448.7 lumens  
Efficiency: N/A  
Efficacy: 73.6 lumens/watt  
Spacing Criteria (0/90/45): 0.65 / 0.65 / 0.66  
Luminous Opening: Circular (Dia: 0.08' x H: 0')  
CIE Type: Direct

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	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95																			
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89																			
3	104	99	94	91	102	97	93	90	95	91	88	92	89	87	90	88	86	84																			
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80																			
5	96	88	83	79	94	87	82	79	86	81	78	84	80	78	83	79	77	76																			
6	92	84	78	75	90	83	78	74	82	77	74	80	76	73	79	76	73	72																			
7	88	80	74	71	87	79	74	70	78	73	70	77	73	70	76	72	69	68																			
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	73	69	66	65																			
9	81	73	67	64	80	72	67	64	71	67	64	70	66	63	70	66	63	62																			
10	78	69	64	61	77	69	64	61	68	64	61	68	63	60	67	63	60	59																			

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

	0°
0°	1702969
5°	1665692
10°	1518421
15°	1247145
20°	915057
25°	625614
30°	350031
35°	182621
40°	103051
45°	44098
50°	25790
55°	18236
60°	12631
65°	9807
70°	6347
75°	8388
80°	12502
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 44098 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.6	17.3
10°-20°	166.8	37.2
20°-30°	130.0	29.0
30°-40°	51.5	11.5
40°-50°	14.6	3.2
50°-60°	4.8	1.1
60°-70°	2.1	0.5
70°-80°	1.2	0.3
80°-90°	0.1	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°	374.4	83.4
0°-40°	426.0	94.9
0°-60°	445.3	99.2
0°-90°	448.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	448.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	863	
5°	841	78
15°	610	167
25°	287	130
35°	76	52
45°	16	15
55°	5	5
65°	2	2
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	862.9
2.5°	860.8
5°	840.8
7.5°	805.0
10°	757.7
12.5°	692.4
15°	610.4
17.5°	522.0
20°	435.7
22.5°	356.7
25°	287.3
27.5°	217.8
30°	153.6
32.5°	107.3
35°	75.8
37.5°	56.8
40°	40.0
42.5°	25.3
45°	15.8
47.5°	11.6
50°	8.4
52.5°	6.3
55°	5.3
57.5°	4.2
60°	3.2
62.5°	2.1
65°	2.1
67.5°	2.1
70°	1.1
72.5°	1.1
75°	1.1
77.5°	1.1
80°	1.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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Scaled Data Report



(END OF REPORT)