

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: P885686

Luminaire Tested: ML104LSFL95FS1E-TIR1D40FL-TL1RDMBB-340LM-4000K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885686
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-129)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D40FL-TL1RDMBB-340LM-4000K
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE BLACK BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT
Ballast/Driver: -

Summary

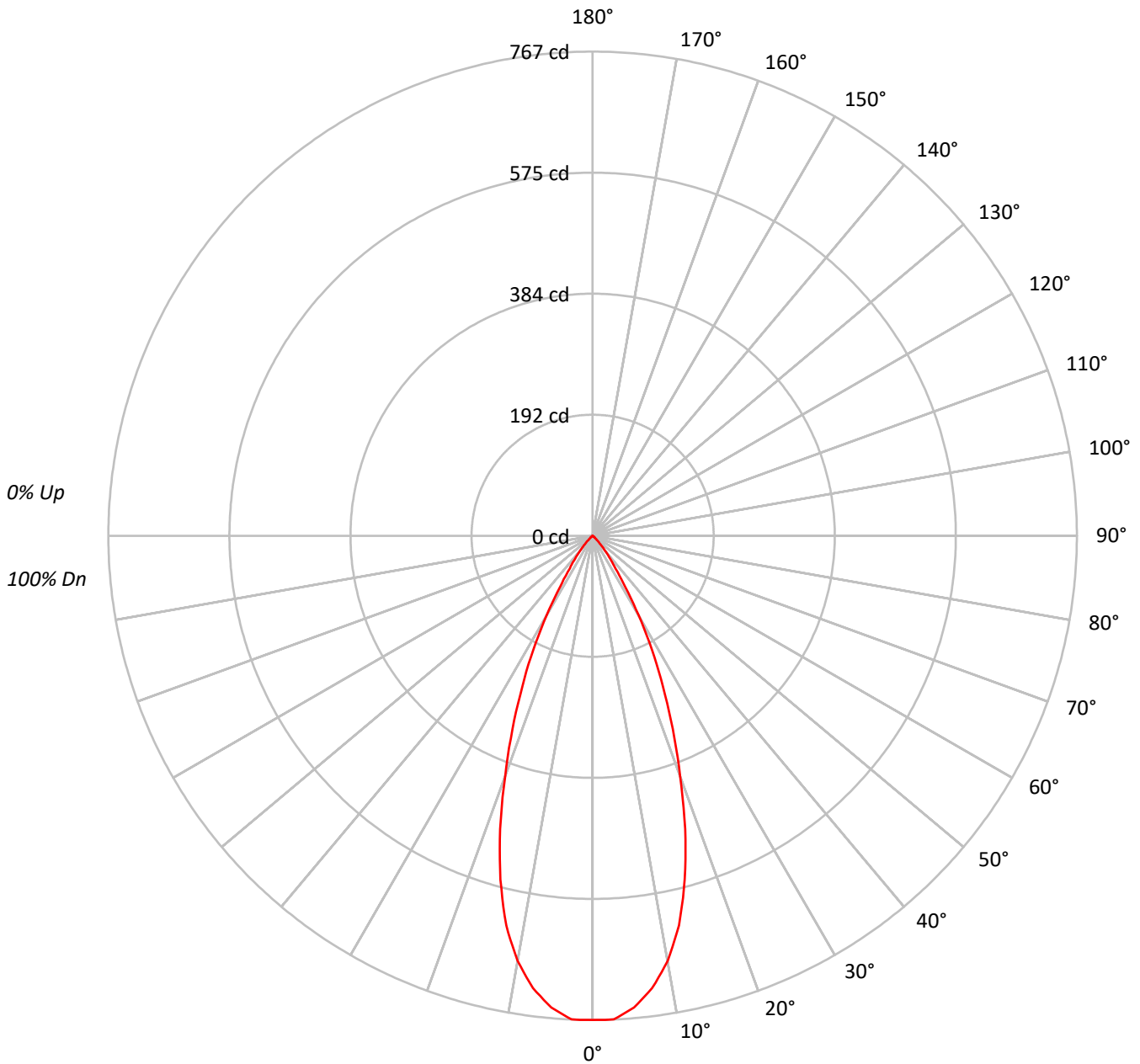
Lumens per Lamp: N/A
Luminaire Lumens: 398.9 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Spacing Criteria (0/90/45): 0.67 / 0.67 / 0.66
Luminous Opening: Circular (Dia: 0.08' x H: 0')
CIE Type: Direct

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			100																
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95			95																
2	110	105	102	99	107	104	100	98	100	98	96	97	95	94	95	93	92	90			90																
3	105	99	95	92	103	98	94	91	95	92	89	93	90	88	91	89	87	85			85																
4	101	94	89	86	99	93	89	85	91	87	84	89	86	83	87	85	82	81			81																
5	96	89	84	81	95	88	84	80	87	83	80	85	82	79	84	81	78	77			77																
6	93	85	80	76	91	84	79	76	83	78	75	81	78	75	80	77	74	73			73																
7	89	81	76	72	88	80	75	72	79	75	72	78	74	71	77	73	71	70			70																
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	68	66			66																
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	65	63			63																
10	79	71	66	62	78	70	65	62	69	65	62	69	65	62	68	64	62	61			61																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1513707
5°	1486207
10°	1370527
15°	1152138
20°	850791
25°	572699
30°	330889
35°	152024
40°	78576
45°	26515
50°	9825
55°	3785
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 26515 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.5	17.4
10°-20°	153.8	38.6
20°-30°	120.7	30.3
30°-40°	44.5	11.2
40°-50°	9.3	2.3
50°-60°	1.0	0.3
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°	344.0	86.2
0°-40°	388.5	97.4
0°-60°	398.9	100.0
0°-90°	398.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	398.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	767	
5°	750	69
15°	564	154
25°	263	121
35°	63	44
45°	10	9
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	767.0
2.5°	767.0
5°	750.2
7.5°	722.8
10°	683.9
12.5°	632.3
15°	563.9
17.5°	487.1
20°	405.1
22.5°	331.4
25°	263.0
27.5°	204.1
30°	145.2
32.5°	95.7
35°	63.1
37.5°	45.2
40°	30.5
42.5°	17.9
45°	9.5
47.5°	5.3
50°	3.2
52.5°	2.1
55°	1.1
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
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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