

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: P885645

Luminaire Tested: ML104LSFL95FS1E-TIR1D25NFL-TL1RDSLb-340LM-3500K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P885645
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-122)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/18/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D25NFL-TL1RDSL B-340LM-3500K
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3500K CCT
Ballast/Driver: -

Summary

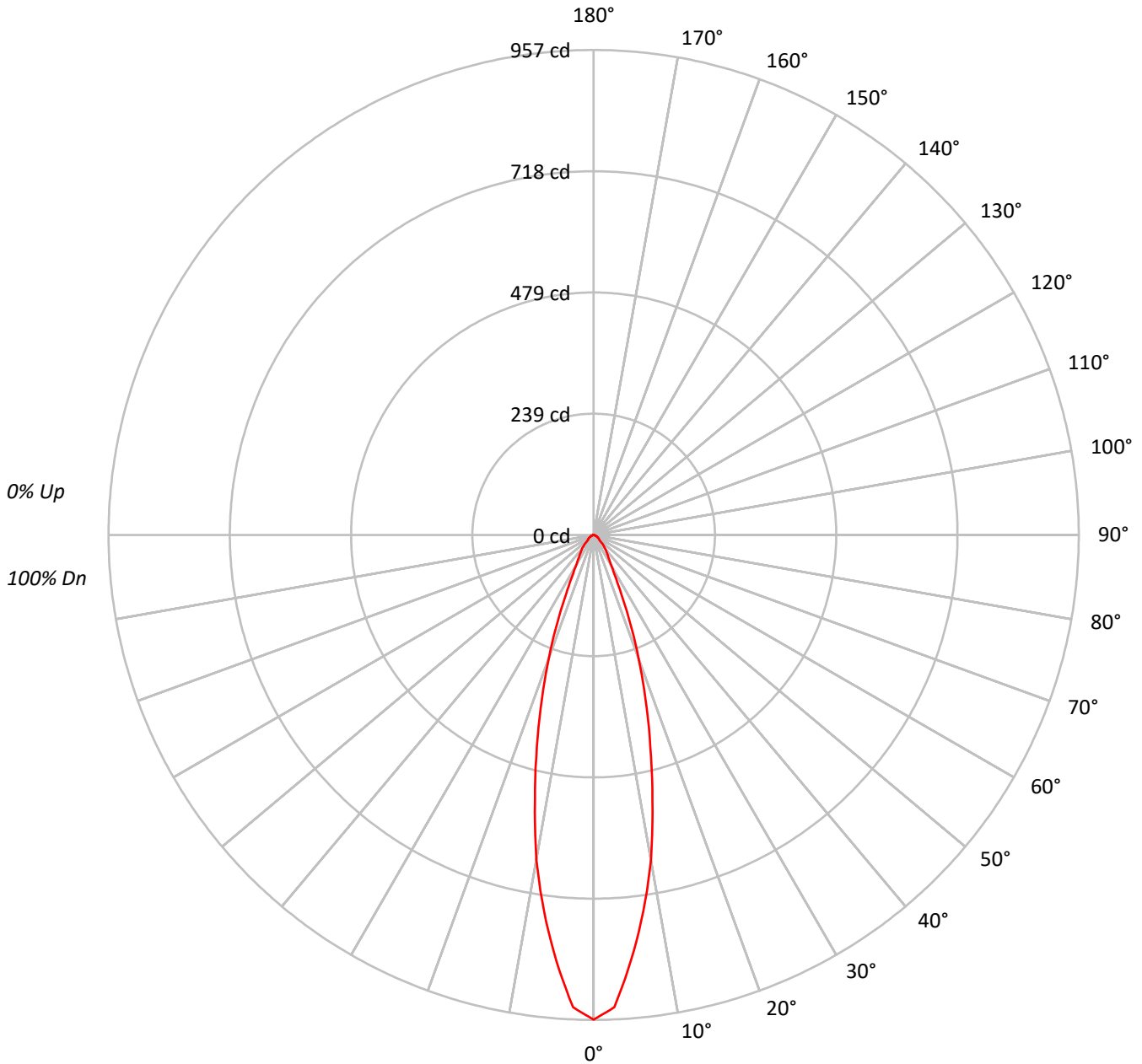
Lumens per Lamp: N/A
Luminaire Lumens: 323.2 lumens
Efficiency: N/A
Efficacy: 53.0 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.49
Luminous Opening: Circular (Dia: 0.08' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P885645
CATALOG NUMBER: ML104LSFL95FS1E-TIR1D25NFL-TL1RDSL B-340LM-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P885645

CATALOG NUMBER: ML104LSFL95FS1E-TIR1D25NFL-TL1RDSL B-340LM-3500K

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1887890
5°	1671438
10°	1303794
15°	882237
20°	540801
25°	278075
30°	155645
35°	114439
40°	91973
45°	66426
50°	45747
55°	40945
60°	35129
65°	27552
70°	17311
75°	7625
80°	11365
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 66426 cd/sqm



TEST NUMBER: P885645

CATALOG NUMBER: ML104LSFL95FS1E-TIR1D25NFL-TL1RDSL B-340LM-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.6	23.1
10°-20°	119.1	36.8
20°-30°	63.1	19.5
30°-40°	30.5	9.4
40°-50°	18.1	5.6
50°-60°	10.6	3.3
60°-70°	5.6	1.7
70°-80°	1.6	0.5
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°	256.7	79.4
0°-40°	287.2	88.9
0°-60°	315.9	97.7
0°-90°	323.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	323.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	957	
5°	844	75
15°	432	119
25°	128	63
35°	48	30
45°	24	18
55°	12	11
65°	6	6
75°	1	2
85°	0	0
90°	0	



TEST NUMBER: P885645

CATALOG NUMBER: ML104LSFL95FS1E-TIR1D25NFL-TL1RDSL B-340LM-3500K

CANDELA DISTRIBUTION (FULL):

	0°
0°	956.6
2.5°	932.9
5°	843.7
7.5°	749.7
10°	650.6
12.5°	535.7
15°	431.8
17.5°	338.7
20°	257.5
22.5°	187.2
25°	127.7
27.5°	90.1
30°	68.3
32.5°	56.4
35°	47.5
37.5°	40.6
40°	35.7
42.5°	29.7
45°	23.8
47.5°	15.8
50°	14.9
52.5°	12.9
55°	11.9
57.5°	10.9
60°	8.9
62.5°	6.9
65°	5.9
67.5°	4.0
70°	3.0
72.5°	2.0
75°	1.0
77.5°	1.0
80°	1.0
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

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

Scaled Data Report



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

Scaled Data Report



— 0°-180°

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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



(END OF REPORT)