

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: P885704

Luminaire Tested: ML104LSFL95FS1E-TIR1D40FL-TL1RDSL B-340LM-3000K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885704
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-128)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D40FL-TL1RDSL B-340LM-3000K
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT
Ballast/Driver: -

Summary

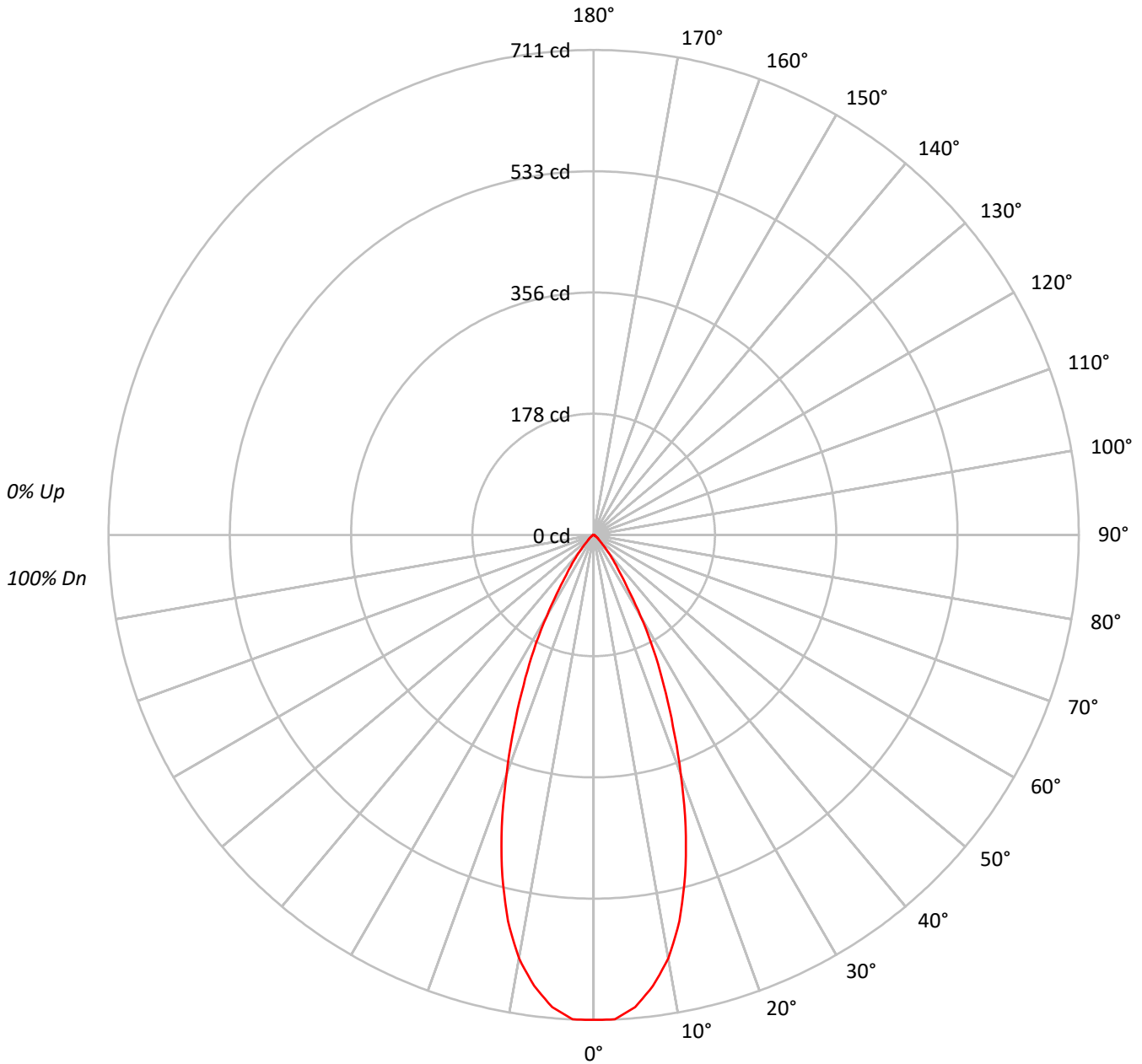
Lumens per Lamp: N/A
Luminaire Lumens: 382.1 lumens
Efficiency: N/A
Efficacy: 62.6 lumens/watt
Spacing Criteria (0/90/45): 0.67 / 0.67 / 0.66
Luminous Opening: Circular (Dia: 0.08' x H: 0')
CIE Type: Direct

Input Watts (W): 6.1
Input Voltage (V): NR
Input Current (A_{in}): 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: P885704
CATALOG NUMBER: ML104LSFL95FS1E-TIR1D40FL-TL1RDSL B-340LM-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P885704

CATALOG NUMBER: ML104LSFL95FS1E-TIR1D40FL-TL1RDSL B-340LM-3000K

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	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	90	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	85	81	78	84	80	77	82	79	77	75			
6	91	84	78	74	90	83	78	74	81	77	74	80	76	73	79	75	73	71			
7	88	79	74	70	86	79	74	70	78	73	70	76	72	69	75	72	69	68			
8	84	76	70	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65			
9	81	72	67	63	80	72	67	63	71	66	63	70	66	63	69	66	63	62			
10	78	69	64	61	77	69	64	60	68	63	60	67	63	60	67	63	60	59			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1402991
5°	1376851
10°	1263514
15°	1056927
20°	783794
25°	529583
30°	313342
35°	157806
40°	89139
45°	41865
50°	25790
55°	16172
60°	11052
65°	8873
70°	5193
75°	6863
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 41865 cd/sqm



TEST NUMBER: P885704

CATALOG NUMBER: ML104LSFL95FS1E-TIR1D40FL-TL1RDSL B-340LM-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.2	16.8
10°-20°	141.3	37.0
20°-30°	111.7	29.2
30°-40°	44.8	11.7
40°-50°	13.1	3.4
50°-60°	4.5	1.2
60°-70°	1.8	0.5
70°-80°	0.6	0.2
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°	317.3	83.0
0°-40°	362.0	94.7
0°-60°	379.7	99.4
0°-90°	382.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	382.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	711	
5°	695	64
15°	517	141
25°	243	112
35°	66	45
45°	15	13
55°	5	5
65°	2	2
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P885704

CATALOG NUMBER: ML104LSFL95FS1E-TIR1D40FL-TL1RDSL B-340LM-3000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	710.9
2.5°	710.9
5°	695.0
7.5°	667.0
10°	630.5
12.5°	580.0
15°	517.3
17.5°	448.1
20°	373.2
22.5°	304.0
25°	243.2
27.5°	189.9
30°	137.5
32.5°	93.5
35°	65.5
37.5°	47.7
40°	34.6
42.5°	22.5
45°	15.0
47.5°	10.3
50°	8.4
52.5°	6.5
55°	4.7
57.5°	3.7
60°	2.8
62.5°	2.8
65°	1.9
67.5°	0.9
70°	0.9
72.5°	0.9
75°	0.9
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

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)