

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: P885644

Luminaire Tested: ML104LSFL95FS1E-TIR1D25NFL-TL1RDSLb-340LM-3000K

Issue Date: 7/18/2024

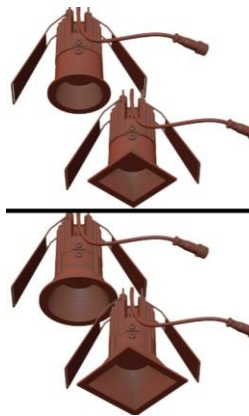
Test Information

Test Method: LM-79-2019
Report Number: P885644
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-3000K
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D 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: 305.4 lumens
Efficiency: N/A
Efficacy: 50.1 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

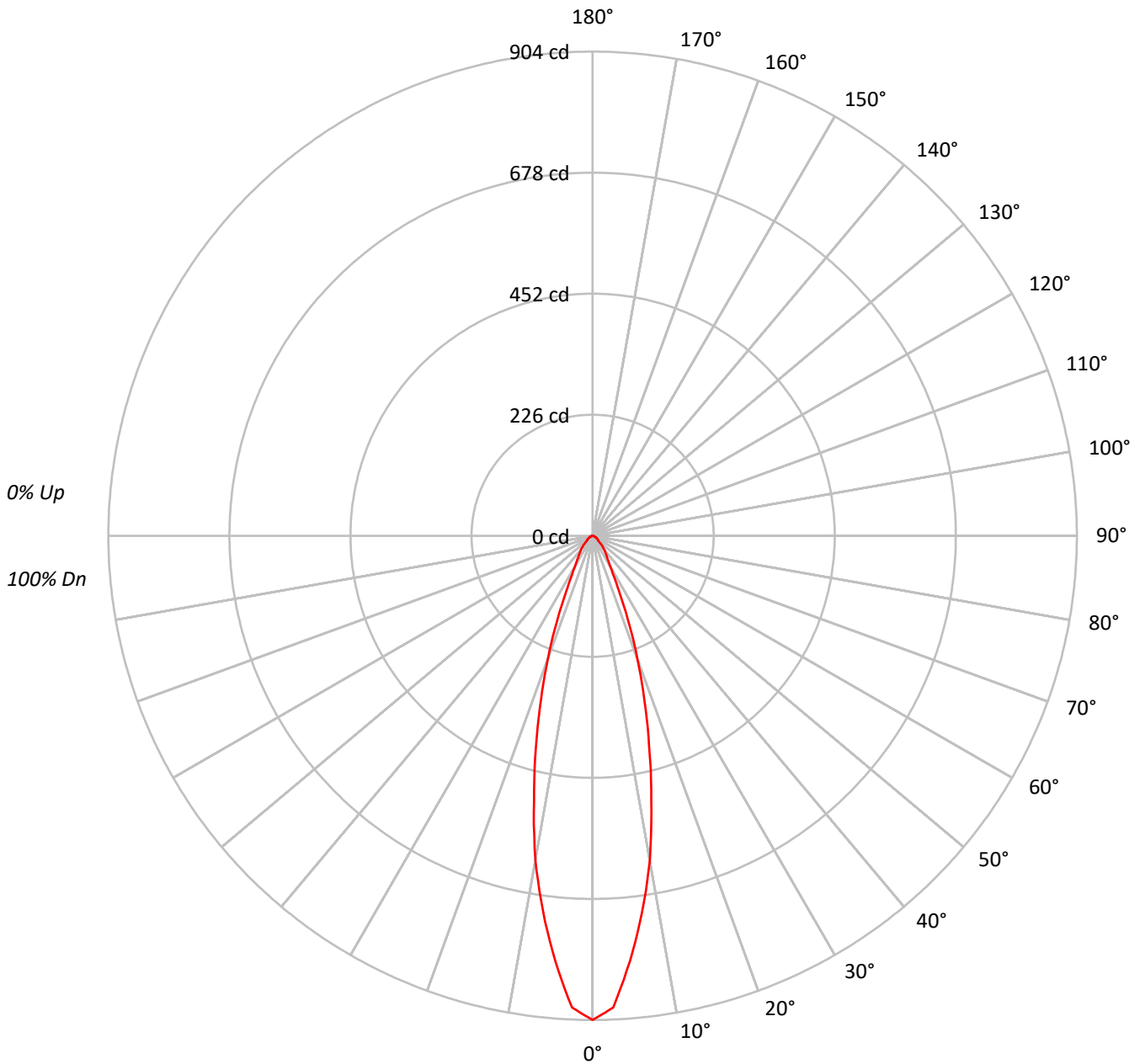
Input Watts (W): 6.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P885644

CATALOG NUMBER: ML104LSFL95FS1E-TIR1D25NFL-TL1RDSL B-340LM-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P885644

CATALOG NUMBER: ML104LSFL95FS1E-TIR1D25NFL-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	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	86	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	70	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	69	64	62	68	64	61	60			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1784082
5°	1579515
10°	1232051
15°	833610
20°	510979
25°	262832
30°	147214
35°	108175
40°	86820
45°	62798
50°	42984
55°	38537
60°	33156
65°	26151
70°	16157
75°	6863
80°	10229
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 62798 cd/sqm



TEST NUMBER: P885644

CATALOG NUMBER: ML104LSFL95FS1E-TIR1D25NFL-TL1RDSLb-340LM-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.4	23.1
10°-20°	112.5	36.8
20°-30°	59.7	19.5
30°-40°	28.8	9.4
40°-50°	17.1	5.6
50°-60°	10.0	3.3
60°-70°	5.3	1.7
70°-80°	1.5	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°	242.6	79.4
0°-40°	271.4	88.9
0°-60°	298.5	97.7
0°-90°	305.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	305.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	904	
5°	797	70
15°	408	113
25°	121	60
35°	45	29
45°	22	17
55°	11	10
65°	6	5
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P885644
CATALOG NUMBER: ML104LSFL95FS1E-TIR1D25NFL-TL1RDSL B-340LM-3000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	904.0
2.5°	881.5
5°	797.3
7.5°	708.4
10°	614.8
12.5°	506.3
15°	408.0
17.5°	320.1
20°	243.3
22.5°	176.9
25°	120.7
27.5°	85.2
30°	64.6
32.5°	53.3
35°	44.9
37.5°	38.4
40°	33.7
42.5°	28.1
45°	22.5
47.5°	15.0
50°	14.0
52.5°	12.2
55°	11.2
57.5°	10.3
60°	8.4
62.5°	6.6
65°	5.6
67.5°	3.7
70°	2.8
72.5°	1.9
75°	0.9
77.5°	0.9
80°	0.9
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)