

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: P885783

Luminaire Tested: ML104LSFL95FS1E-TIR1D55WFL-TL1SDMWB-340LM-2700K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885783
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-151)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D55WFL-TL1SDMWB-340LM-2700K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 2700K CCT
Ballast/Driver: -

Summary

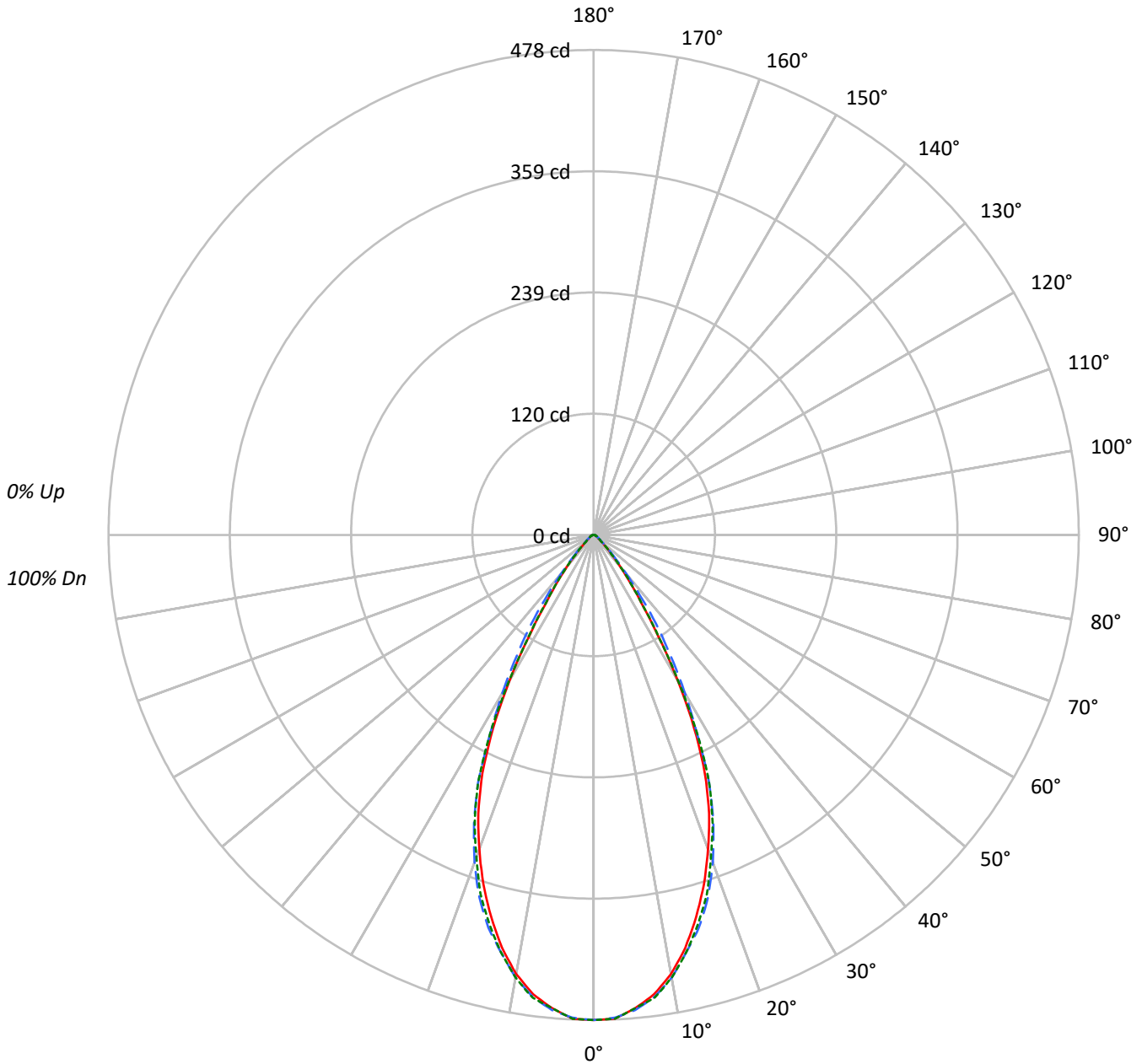
Lumens per Lamp: N/A
Luminaire Lumens: 362.6 lumens
Efficiency: N/A
Efficacy: 59.4 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.83 / 0.81
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

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: P885783
CATALOG NUMBER: ML104LSFL95FS1E-TIR1D55WFL-TL1SDMWB-340LM-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P885783

CATALOG NUMBER: ML104LSFL95FS1E-TIR1D55WFL-TL1SDMWB-340LM-2700K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	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	113	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93								
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87								
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81								
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76								
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71								
6	88	80	74	70	87	79	73	69	77	73	69	76	72	69	75	71	68	67								
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63								
8	80	71	65	61	79	71	65	61	70	65	61	69	64	61	68	63	60	59								
9	77	67	62	58	76	67	61	58	66	61	58	65	61	57	64	60	57	56								
10	73	64	58	55	72	64	58	55	63	58	54	62	57	54	61	57	54	53								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	741218	741218	741218
5°	728645	731446	728645
10°	691584	697250	697250
15°	625671	643001	637224
20°	543673	565941	557034
25°	443469	460571	460571
30°	296571	320733	299792
35°	154973	202846	156676
40°	81948	100158	83769
45°	41430	47348	41430
50°	19532	26043	21703
55°	14593	17025	14593
60°	13950	13950	13950
65°	13204	13204	13204
70°	12236	12236	12236
75°	10780	10780	10780
80°	8034	8034	8034
85°	16006	16006	16006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 47348 cd/sqm



TEST NUMBER: P885783

CATALOG NUMBER: ML104LSFL95FS1E-TIR1D55WFL-TL1SDMWB-340LM-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.0	12.1
10°-20°	110.3	30.4
20°-30°	119.0	32.8
30°-40°	60.5	16.7
40°-50°	17.0	4.7
50°-60°	5.5	1.5
60°-70°	3.5	1.0
70°-80°	2.2	0.6
80°-90°	0.6	0.2
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°	273.3	75.4
0°-40°	333.8	92.1
0°-60°	356.3	98.3
0°-90°	362.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	362.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	478	478	478	478	478	
5°	468	470	470	470	468	44
15°	390	394	401	400	397	108
25°	259	263	269	269	269	116
35°	82	90	107	92	83	55
45°	19	20	22	20	19	16
55°	5	5	6	6	5	5
65°	4	4	4	4	4	3
75°	2	2	2	2	2	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P885783

CATALOG NUMBER: ML104LSFL95FS1E-TIR1D55WFL-TL1SDMWB-340LM-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	478.2	478.2	478.2	478.2	478.2
2.5°	477.3	476.4	476.4	477.3	477.3
5°	468.3	470.1	470.1	470.1	468.3
7.5°	456.6	457.5	459.3	459.3	460.2
10°	439.4	441.2	443.0	443.0	443.0
12.5°	416.9	418.7	421.4	422.3	421.4
15°	389.9	394.4	400.7	399.8	397.1
17.5°	361.1	366.5	374.6	371.9	371.0
20°	329.6	335.9	343.1	340.4	337.7
22.5°	297.2	302.6	308.0	308.0	306.2
25°	259.3	262.9	269.3	269.3	269.3
27.5°	214.3	218.8	220.6	224.2	221.5
30°	165.7	172.0	179.2	177.4	167.5
32.5°	118.0	127.9	140.5	131.5	119.8
35°	81.9	90.1	107.2	91.9	82.8
37.5°	58.5	61.2	74.7	61.2	59.4
40°	40.5	42.3	49.5	42.3	41.4
42.5°	27.9	29.7	32.4	29.7	27.0
45°	18.9	19.8	21.6	19.8	18.9
47.5°	11.7	12.6	14.4	13.5	12.6
50°	8.1	9.0	10.8	9.9	9.0
52.5°	6.3	7.2	8.1	7.2	7.2
55°	5.4	5.4	6.3	6.3	5.4
57.5°	4.5	4.5	5.4	4.5	4.5
60°	4.5	4.5	4.5	4.5	4.5
62.5°	3.6	3.6	3.6	3.6	3.6
65°	3.6	3.6	3.6	3.6	3.6
67.5°	2.7	3.6	2.7	3.6	2.7
70°	2.7	2.7	2.7	2.7	2.7
72.5°	2.7	2.7	2.7	2.7	2.7
75°	1.8	1.8	1.8	1.8	1.8
77.5°	1.8	1.8	1.8	1.8	1.8
80°	0.9	0.9	0.9	1.8	0.9
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.9	0.9	0.9	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	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





— 0°-180° - - 45°-225° - - - - 90°-270°

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)