

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: P885725

Luminaire Tested: ML104LSFL95FS1E-TIR1D40FL-TL1SDMWB-340LM-3500K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885725
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-145)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D40FL-TL1SDMWB-340LM-3500K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3500K CCT
Ballast/Driver: -

Summary

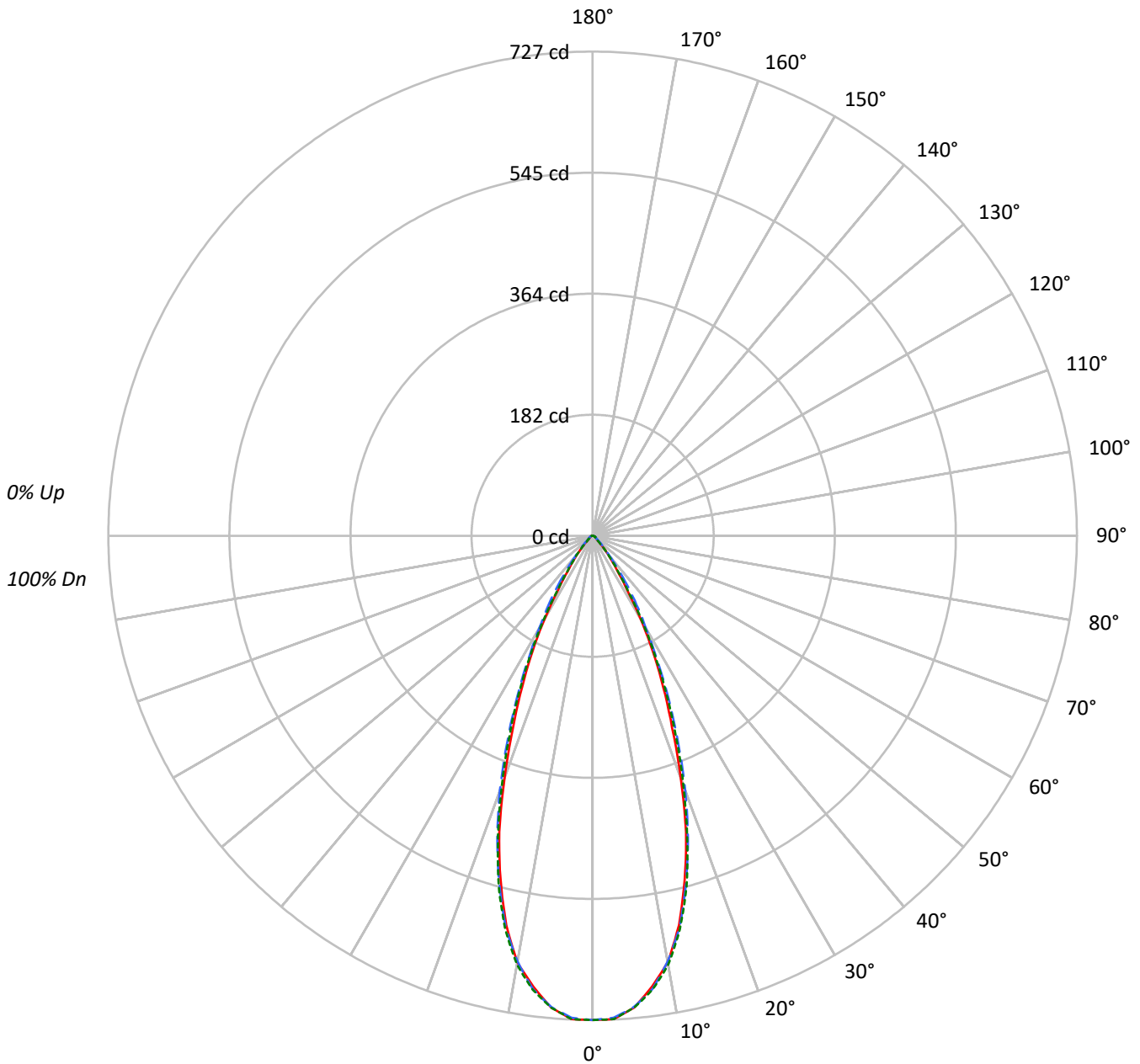
Lumens per Lamp: N/A
Luminaire Lumens: 413.7 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.69 / 0.68
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

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: P885725
CATALOG NUMBER: ML104LSFL95FS1E-TIR1D40FL-TL1SDMWB-340LM-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P885725

CATALOG NUMBER: ML104LSFL95FS1E-TIR1D40FL-TL1SDMWB-340LM-3500K

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	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	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94					94			
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88					88			
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	84	83					83			
4	99	92	87	83	97	91	86	82	89	85	81	87	83	81	85	82	80	78					78			
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74					74			
6	91	82	77	73	89	82	76	73	80	76	72	79	75	72	78	74	71	70					70			
7	87	78	73	69	85	78	72	69	76	72	68	75	71	68	74	70	68	66					66			
8	83	74	69	65	82	74	69	65	73	68	65	72	68	65	71	67	64	63					63			
9	80	71	66	62	79	70	65	62	70	65	62	69	64	61	68	64	61	60					60			
10	77	68	62	59	76	67	62	59	67	62	59	66	62	59	65	61	58	57					57			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1127172	1127172	1127172
5°	1106894	1105338	1106894
10°	1023210	1021636	1029349
15°	857388	868461	874880
20°	636539	670849	656168
25°	428076	460229	448428
30°	255047	285116	269187
35°	123562	168597	131131
40°	67986	82150	70010
45°	30470	43403	28277
50°	19050	23873	19050
55°	15944	18646	15944
60°	15190	15190	15190
65°	14671	14671	14671
70°	13596	13596	13596
75°	11978	11978	11978
80°	8926	17852	17852
85°	17784	17784	17784

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 43403 cd/sqm



TEST NUMBER: P885725

CATALOG NUMBER: ML104LSFL95FS1E-TIR1D40FL-TL1SDMWB-340LM-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.9	15.9
10°-20°	147.9	35.8
20°-30°	120.5	29.1
30°-40°	51.5	12.5
40°-50°	14.5	3.5
50°-60°	5.9	1.4
60°-70°	4.2	1.0
70°-80°	2.5	0.6
80°-90°	0.8	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°	334.3	80.8
0°-40°	385.9	93.3
0°-60°	406.3	98.2
0°-90°	413.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	413.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	727	727	727	727	727	
5°	711	710	710	710	711	66
15°	534	536	541	543	545	146
25°	250	256	269	263	262	115
35°	65	73	89	78	69	45
45°	14	17	20	17	13	13
55°	6	7	7	7	6	5
65°	4	4	4	4	4	4
75°	2	2	2	2	2	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P885725

CATALOG NUMBER: ML104LSFL95FS1E-TIR1D40FL-TL1SDMWB-340LM-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	727.2	727.2	727.2	727.2	727.2
2.5°	726.3	725.3	724.3	725.3	726.3
5°	711.4	710.4	710.4	710.4	711.4
7.5°	682.7	685.7	686.7	687.7	687.7
10°	650.1	648.1	649.1	651.1	654.0
12.5°	598.6	599.6	602.6	604.6	605.5
15°	534.3	536.3	541.2	543.2	545.2
17.5°	466.0	468.0	475.9	474.9	472.0
20°	385.9	392.8	406.7	406.7	397.8
22.5°	311.7	321.6	334.4	330.5	327.5
25°	250.3	256.3	269.1	263.2	262.2
27.5°	194.9	202.8	208.8	208.8	202.8
30°	142.5	155.3	159.3	159.3	150.4
32.5°	96.0	107.9	122.7	113.8	100.9
35°	65.3	73.2	89.1	78.2	69.3
37.5°	47.5	51.5	61.3	52.4	49.5
40°	33.6	36.6	40.6	37.6	34.6
42.5°	22.8	24.7	27.7	25.7	22.8
45°	13.9	16.8	19.8	16.8	12.9
47.5°	9.9	10.9	14.8	10.9	9.9
50°	7.9	8.9	9.9	8.9	7.9
52.5°	6.9	6.9	7.9	6.9	6.9
55°	5.9	6.9	6.9	6.9	5.9
57.5°	4.9	5.9	5.9	5.9	4.9
60°	4.9	4.9	4.9	4.9	4.9
62.5°	4.9	4.9	4.9	4.9	4.9
65°	4.0	4.0	4.0	4.0	4.0
67.5°	4.0	4.0	4.0	4.0	4.0
70°	3.0	3.0	3.0	3.0	3.0
72.5°	3.0	3.0	3.0	3.0	3.0
75°	2.0	2.0	2.0	2.0	2.0
77.5°	2.0	2.0	2.0	2.0	2.0
80°	1.0	2.0	2.0	2.0	2.0
82.5°	1.0	1.0	1.0	1.0	1.0
85°	1.0	1.0	1.0	1.0	1.0
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)