

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: P885675

Luminaire Tested: ML104LSFL95FS1E-TIR1D25NFL-TL1SDSLB-340LM-3500K

Issue Date: 6/19/2024

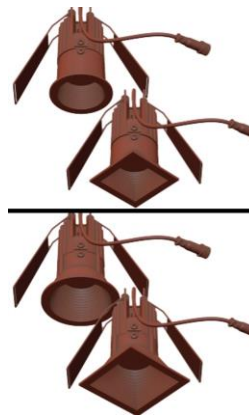
Test Information

Test Method: LM-79-2019
Report Number: P885675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-140)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D25NFL-TL1SDSLB-340LM-3500K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3500K CCT
Ballast/Driver: -

Summary

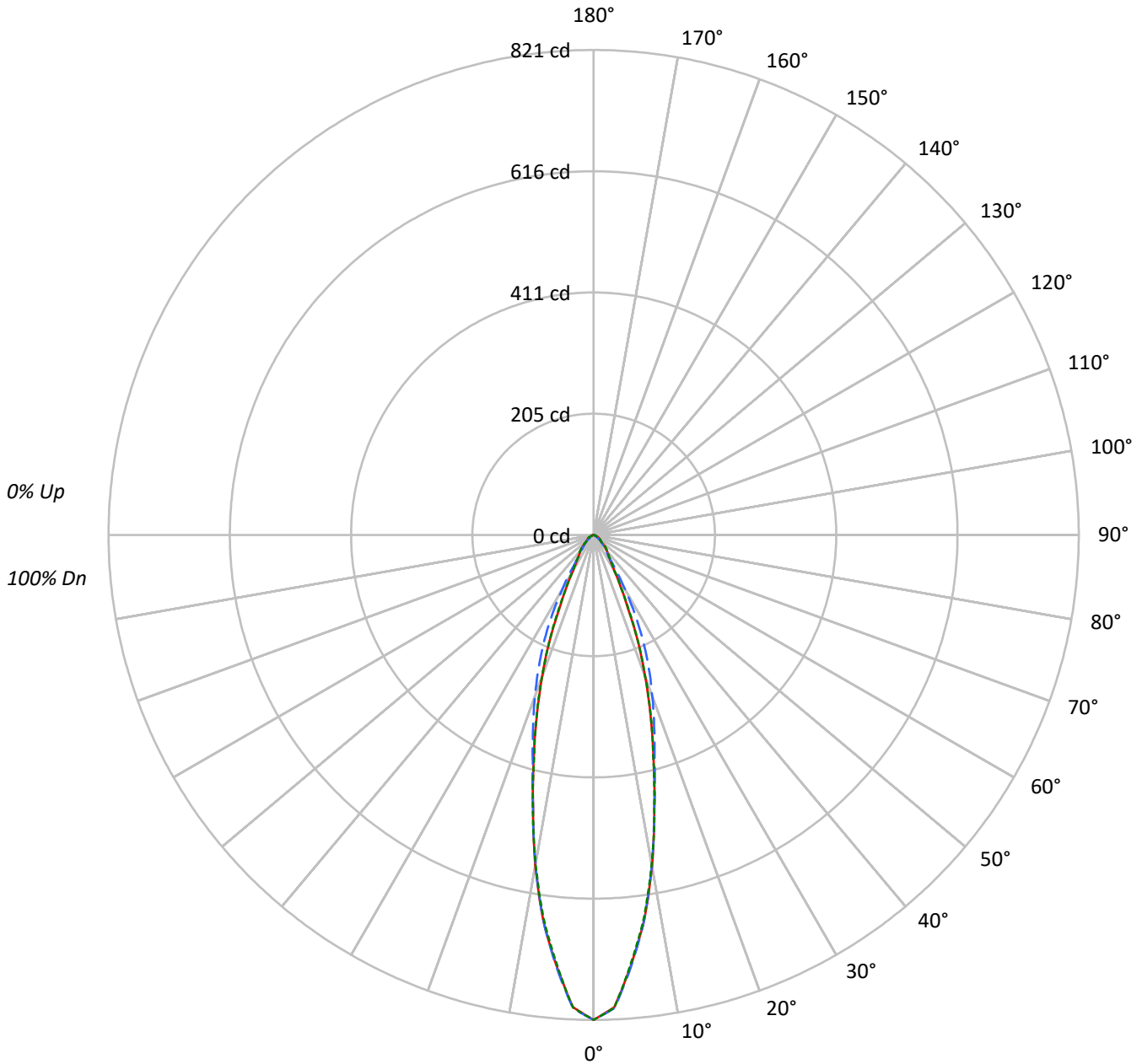
Lumens per Lamp: N/A
Luminaire Lumens: 311.6 lumens
Efficiency: N/A
Efficacy: 51.1 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.56
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

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: P885675
CATALOG NUMBER: ML104LSFL95FS1E-TIR1D25NFL-TL1SDSLB-340LM-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P885675

CATALOG NUMBER: ML104LSFL95FS1E-TIR1D25NFL-TL1SDSLB-340LM-3500K

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	114	111	109	107	112	109	107	105	105	104	102	101	100	99	98	97	96	94								
2	109	104	101	98	107	103	99	96	99	97	94	97	94	92	94	92	90	89								
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84								
4	100	93	88	84	98	92	87	83	89	86	82	88	84	81	86	83	81	79								
5	95	88	83	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75								
6	91	83	78	74	90	83	78	74	81	77	73	80	76	73	79	75	72	71								
7	88	79	74	70	86	79	74	70	78	73	70	76	72	69	75	72	69	68								
8	84	76	71	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65								
9	81	73	67	64	80	72	67	64	71	67	63	70	66	63	70	66	63	62								
10	78	70	64	61	77	69	64	61	68	64	61	68	64	61	67	63	60	59								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1272563	1272563	1272563
5°	1135834	1138946	1131166
10°	895250	892102	890528
15°	628559	638027	623745
20°	419301	478023	420951
25°	233450	338288	242001
30°	125644	189361	129224
35°	84204	82312	87988
40°	67986	58072	72033
45°	51952	45595	56336
50°	38100	33277	38100
55°	34861	10809	34861
60°	30690	9300	30690
65°	21639	7335	21639
70°	13596	4532	13596
75°	5989	5989	5989
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 56336 cd/sqm



TEST NUMBER: P885675

CATALOG NUMBER: ML104LSFL95FS1E-TIR1D25NFL-TL1SDSLB-340LM-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.8	20.8
10°-20°	110.2	35.4
20°-30°	75.8	24.3
30°-40°	31.5	10.1
40°-50°	17.0	5.5
50°-60°	7.8	2.5
60°-70°	3.5	1.1
70°-80°	1.0	0.3
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°	250.8	80.5
0°-40°	282.3	90.6
0°-60°	307.1	98.6
0°-90°	311.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	311.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	821	821	821	821	821	
5°	730	728	732	729	727	65
15°	392	394	398	396	389	109
25°	136	158	198	160	142	66
35°	44	48	44	48	46	29
45°	24	22	21	23	26	18
55°	13	8	4	8	13	11
65°	6	3	2	3	6	6
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P885675

CATALOG NUMBER: ML104LSFL95FS1E-TIR1D25NFL-TL1SDSLB-340LM-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	821.0	821.0	821.0	821.0	821.0
2.5°	800.2	801.2	802.2	804.2	801.2
5°	730.0	728.0	732.0	729.0	727.0
7.5°	656.8	656.8	656.8	654.8	652.9
10°	568.8	568.8	566.8	567.8	565.8
12.5°	473.8	470.8	473.8	471.8	474.8
15°	391.7	393.7	397.6	395.7	388.7
17.5°	319.5	327.4	340.3	328.4	321.5
20°	254.2	269.1	289.8	269.1	255.2
22.5°	195.9	212.7	243.3	213.7	195.9
25°	136.5	158.3	197.8	160.2	141.5
27.5°	98.9	111.8	151.3	113.8	99.9
30°	70.2	81.1	105.8	83.1	72.2
32.5°	54.4	63.3	67.3	62.3	55.4
35°	44.5	48.5	43.5	48.5	46.5
37.5°	38.6	37.6	34.6	38.6	40.6
40°	33.6	30.7	28.7	31.7	35.6
42.5°	29.7	26.7	24.7	26.7	30.7
45°	23.7	21.8	20.8	22.8	25.7
47.5°	17.8	15.8	17.8	16.8	17.8
50°	15.8	10.9	13.8	10.9	15.8
52.5°	13.8	8.9	8.9	8.9	13.8
55°	12.9	7.9	4.0	7.9	12.9
57.5°	10.9	6.9	4.0	6.9	10.9
60°	9.9	5.9	3.0	5.9	9.9
62.5°	7.9	4.0	2.0	4.0	7.9
65°	5.9	3.0	2.0	3.0	5.9
67.5°	4.0	2.0	1.0	2.0	4.0
70°	3.0	2.0	1.0	2.0	3.0
72.5°	2.0	1.0	1.0	1.0	2.0
75°	1.0	1.0	1.0	1.0	1.0
77.5°	1.0	1.0	0.0	0.0	1.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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)