

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: P885630

Luminaire Tested: ML104LSFL95FS1E-TIR1D25NFL-TL1RDMW-340LM-3500K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P885630
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-118)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/18/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D25NFL-TL1RDMW-340LM-3500K
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3500K CCT
Ballast/Driver: -

Summary

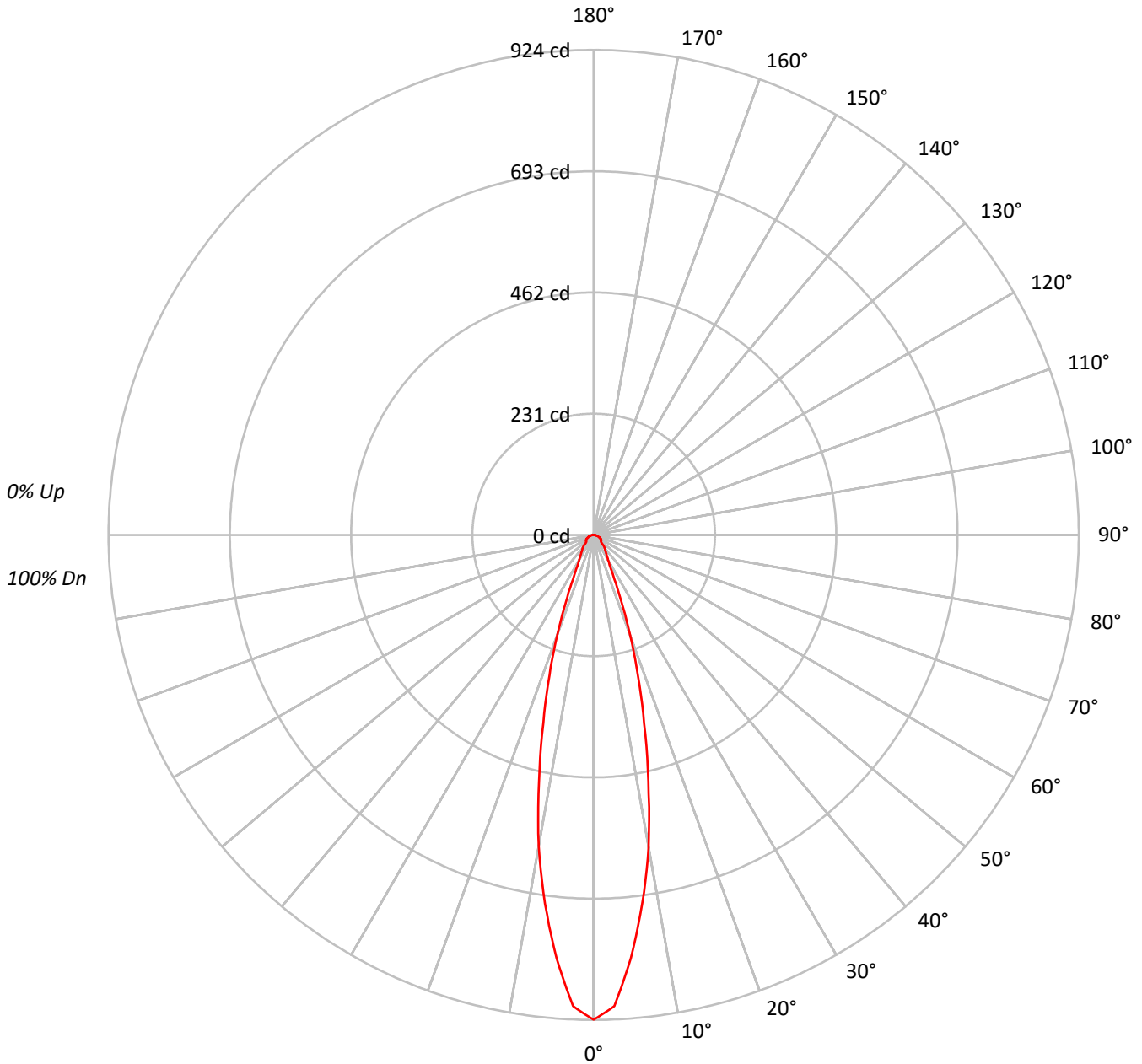
Lumens per Lamp: N/A
Luminaire Lumens: 302.3 lumens
Efficiency: N/A
Efficacy: 49.6 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.46
Luminous Opening: Circular (Dia: 0.08' x H: 0')
CIE Type: Direct

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: P885630
CATALOG NUMBER: ML104LSFL95FS1E-TIR1D25NFL-TL1RDMW-340LM-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P885630

CATALOG NUMBER: ML104LSFL95FS1E-TIR1D25NFL-TL1RDMW-340LM-3500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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				100															
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92				92															
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85				85															
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	86	84	81	80				80															
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75				75															
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71				71															
6	89	80	74	70	87	79	74	70	78	73	70	77	72	69	75	72	69	67				67															
7	85	76	71	67	84	76	70	67	75	70	66	73	69	66	72	68	66	64				64															
8	82	73	68	64	81	73	67	64	72	67	63	71	66	63	70	66	63	61				61															
9	79	70	65	61	78	70	64	61	69	64	61	68	64	60	67	63	60	59				59															
10	76	67	62	59	75	67	62	59	66	62	58	66	61	58	65	61	58	57				57															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1822763
5°	1604081
10°	1208204
15°	758421
20°	424030
25°	202731
30°	123969
35°	97816
40°	84244
45°	58053
50°	57721
55°	61246
60°	62364
65°	60240
70°	57125
75°	52614
80°	45461
85°	45288

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 60°
 Luminance: 62364 cd/sqm



TEST NUMBER: P885630

CATALOG NUMBER: ML104LSFL95FS1E-TIR1D25NFL-TL1RDMW-340LM-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.8	23.4
10°-20°	102.9	34.0
20°-30°	47.3	15.7
30°-40°	25.8	8.5
40°-50°	17.9	5.9
50°-60°	15.6	5.2
60°-70°	12.5	4.1
70°-80°	7.3	2.4
80°-90°	2.2	0.7
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°	221.0	73.1
0°-40°	246.9	81.7
0°-60°	280.3	92.7
0°-90°	302.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	302.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	924	
5°	810	71
15°	371	103
25°	93	47
35°	41	26
45°	21	18
55°	18	16
65°	13	13
75°	7	7
85°	2	2
90°	0	



TEST NUMBER: P885630

CATALOG NUMBER: ML104LSFL95FS1E-TIR1D25NFL-TL1RDMW-340LM-3500K

CANDELA DISTRIBUTION (FULL):

	0°
0°	923.6
2.5°	898.8
5°	809.7
7.5°	708.8
10°	602.9
12.5°	480.1
15°	371.2
17.5°	280.1
20°	201.9
22.5°	137.6
25°	93.1
27.5°	67.3
30°	54.4
32.5°	46.5
35°	40.6
37.5°	35.6
40°	32.7
42.5°	27.7
45°	20.8
47.5°	18.8
50°	18.8
52.5°	17.8
55°	17.8
57.5°	16.8
60°	15.8
62.5°	13.9
65°	12.9
67.5°	10.9
70°	9.9
72.5°	7.9
75°	6.9
77.5°	5.9
80°	4.0
82.5°	3.0
85°	2.0
87.5°	1.0
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)