

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: P885988

Luminaire Tested: ML104LSFLD2W1E-TIR1D25NFL-TL1RDMB-200LM-2700K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P885988
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-120)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/18/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFLD2W1E-TIR1D25NFL-TL1RDMB-200LM-2700K
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK TRIM
Light Source: (1) D2W LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

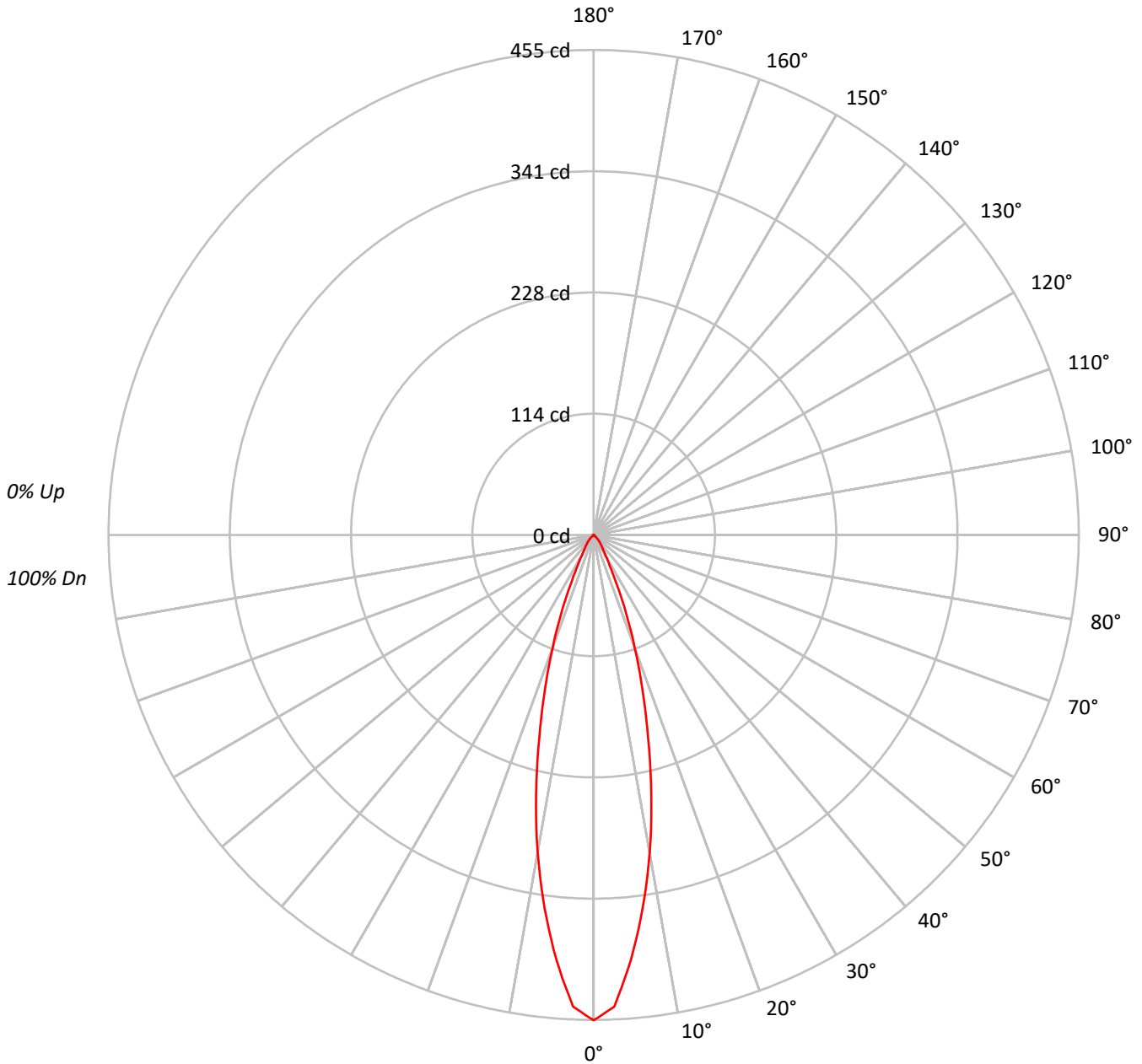
Lumens per Lamp: N/A
Luminaire Lumens: 127.5 lumens
Efficiency: N/A
Efficacy: 39.8 lumens/watt
Spacing Criteria (0/90/45): 0.45 / 0.45 / 0.48
Luminous Opening: Circular (Dia: 0.08' x H: 0')
CIE Type: Direct

Input Watts (W): 3.2
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: P885988
CATALOG NUMBER: ML104LSFLD2W1E-TIR1D25NFL-TL1RDMB-200LM-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P885988

CATALOG NUMBER: ML104LSFLD2W1E-TIR1D25NFL-TL1RDMB-200LM-2700K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									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	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	115	112	110	108	112	110	108	107	106	105	104	103	101	100	99	98	98	96											96																	
2	110	106	103	101	108	105	102	99	102	99	97	99	97	95	96	95	93	92											92																	
3	106	101	97	94	105	100	96	93	97	94	92	95	93	91	93	91	89	88											88																	
4	103	97	92	89	101	96	92	89	94	90	88	92	89	87	90	88	86	84											84																	
5	99	93	88	85	98	92	87	84	90	86	84	88	85	83	87	84	82	81											81																	
6	96	89	84	81	94	88	84	81	87	83	80	85	82	80	84	81	79	78											78																	
7	92	85	81	77	91	85	80	77	84	80	77	83	79	77	82	78	76	75											75																	
8	89	82	78	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72											72																	
9	87	79	75	72	86	79	75	72	78	74	71	77	74	71	77	73	71	70											70																	
10	84	77	72	69	83	76	72	69	76	72	69	75	71	69	74	71	69	68											68																	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	898751
5°	793423
10°	606607
15°	402707
20°	235852
25°	110185
30°	50590
35°	32525
40°	22414
45°	12001
50°	3070
55°	1720
60°	1974
65°	0
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12001 cd/sqm



TEST NUMBER: P885988

CATALOG NUMBER: ML104LSFLD2W1E-TIR1D25NFL-TL1RDMB-200LM-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.2	27.6
10°-20°	54.3	42.6
20°-30°	25.3	19.8
30°-40°	8.7	6.8
40°-50°	3.2	2.5
50°-60°	0.6	0.5
60°-70°	0.2	0.1
70°-80°	0.0	0.0
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°	114.8	90.0
0°-40°	123.5	96.8
0°-60°	127.3	99.9
0°-90°	127.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	127.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	455	
5°	400	35
15°	197	54
25°	51	25
35°	14	9
45°	4	3
55°	0	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P885988

CATALOG NUMBER: ML104LSFLD2W1E-TIR1D25NFL-TL1RDMB-200LM-2700K

CANDELA DISTRIBUTION (FULL):

	0°
0°	455.4
2.5°	442.9
5°	400.5
7.5°	352.8
10°	302.7
12.5°	249.6
15°	197.1
17.5°	151.8
20°	112.3
22.5°	79.0
25°	50.6
27.5°	32.3
30°	22.2
32.5°	16.9
35°	13.5
37.5°	10.6
40°	8.7
42.5°	6.7
45°	4.3
47.5°	1.4
50°	1.0
52.5°	1.0
55°	0.5
57.5°	0.5
60°	0.5
62.5°	0.5
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
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)