

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: P886016

Luminaire Tested: ML104LSFLD2W1E-TIR1D40FL-TL1RDMW-200LM-3500K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P886016
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-124)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFLD2W1E-TIR1D40FL-TL1RDMW-200LM-3500K
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE WHITE TRIM
Light Source: (1) D2W LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 237.2 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Spacing Criteria (0/90/45): 0.65 / 0.65 / 0.65
Luminous Opening: Circular (Dia: 0.08' x H: 0')
CIE Type: Direct

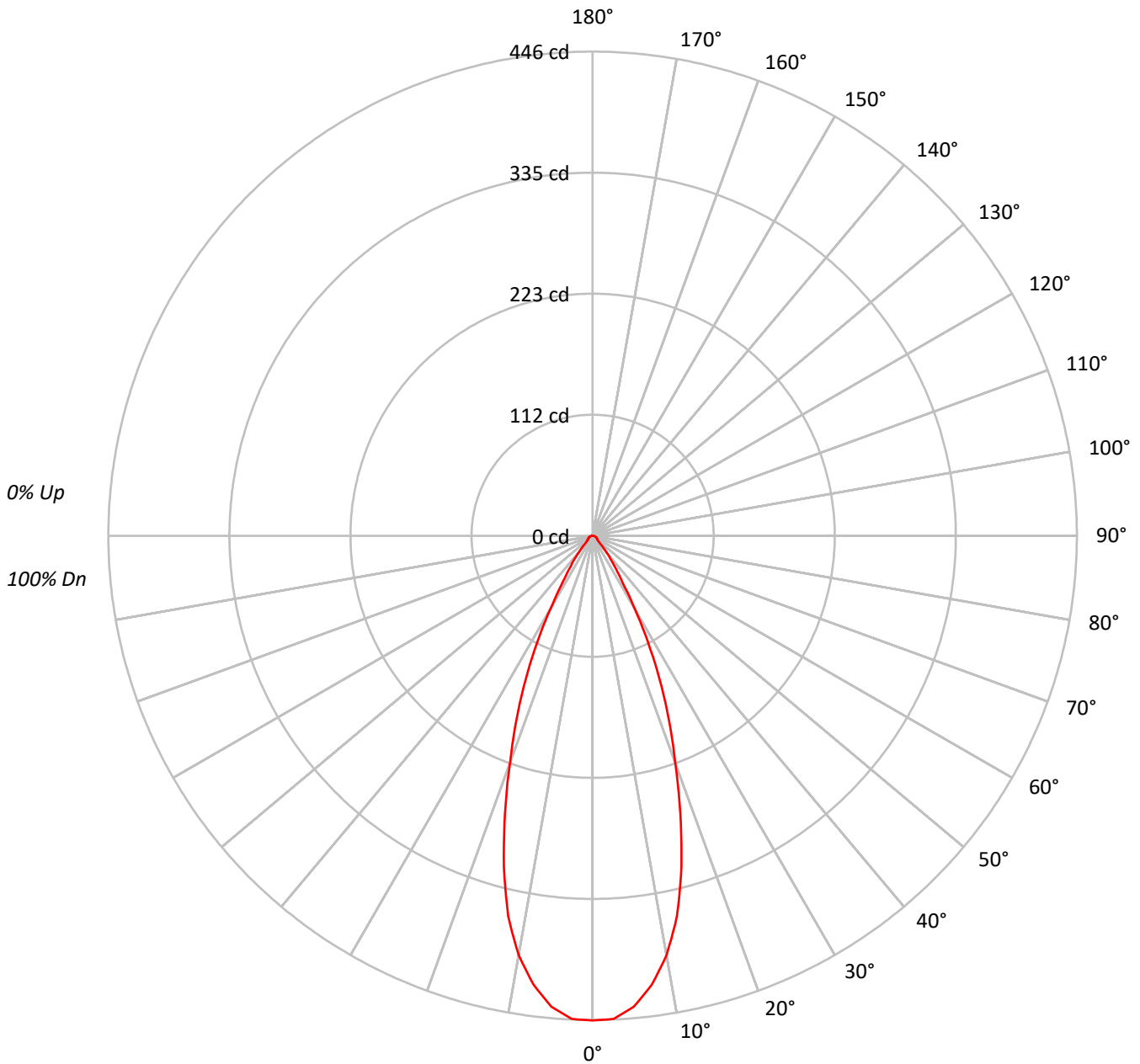
Input Watts (W): 3.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P886016

CATALOG NUMBER: ML104LSFLD2W1E-TIR1D40FL-TL1RDMW-200LM-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P886016

CATALOG NUMBER: ML104LSFLD2W1E-TIR1D40FL-TL1RDMW-200LM-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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	114	111	108	106	111	109	106	105	105	103	101		101	100	98		98	96	95	94
2	108	104	100	96	106	102	98	95	99	96	93		96	93	91		93	91	89	88
3	103	97	93	89	101	96	92	88	93	90	87		91	88	85		89	86	84	83
4	99	92	87	83	97	91	86	82	88	84	81		87	83	80		85	82	79	78
5	94	87	81	77	93	86	81	77	84	80	76		82	79	76		81	78	75	74
6	90	82	77	73	89	81	76	73	80	75	72		79	75	72		77	74	71	70
7	87	78	73	69	85	78	72	69	76	72	68		75	71	68		74	70	68	66
8	83	75	69	65	82	74	69	65	73	68	65		72	68	65		71	67	64	63
9	80	71	66	62	79	71	66	62	70	65	62		69	65	62		68	64	61	60
10	77	68	63	59	76	68	63	59	67	62	59		66	62	59		65	62	59	58

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	881186
5°	862562
10°	785763
15°	644822
20°	467084
25°	317706
30°	175699
35°	90829
40°	51526
45°	23165
50°	18729
55°	17204
60°	17367
65°	18212
70°	16157
75°	16775
80°	19321
85°	13586

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 27147 cd/sqm



TEST NUMBER: P886016

CATALOG NUMBER: ML104LSFLD2W1E-TIR1D40FL-TL1RDMW-200LM-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.2	16.9
10°-20°	86.1	36.3
20°-30°	66.1	27.9
30°-40°	25.5	10.8
40°-50°	7.9	3.3
50°-60°	4.5	1.9
60°-70°	3.6	1.5
70°-80°	2.5	1.1
80°-90°	0.9	0.4
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°	192.4	81.1
0°-40°	217.9	91.8
0°-60°	230.2	97.1
0°-90°	237.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	237.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	446	
5°	435	40
15°	316	86
25°	146	66
35°	38	26
45°	8	8
55°	5	5
65°	4	4
75°	2	2
85°	1	1
90°	0	



TEST NUMBER: P886016

CATALOG NUMBER: ML104LSFLD2W1E-TIR1D40FL-TL1RDMW-200LM-3500K

CANDELA DISTRIBUTION (FULL):

0°	
0°	446.5
2.5°	445.4
5°	435.4
7.5°	417.1
10°	392.1
12.5°	358.9
15°	315.6
17.5°	268.4
20°	222.4
22.5°	183.0
25°	145.9
27.5°	109.8
30°	77.1
32.5°	52.7
35°	37.7
37.5°	27.7
40°	20.0
42.5°	13.3
45°	8.3
47.5°	6.7
50°	6.1
52.5°	5.5
55°	5.0
57.5°	4.4
60°	4.4
62.5°	3.9
65°	3.9
67.5°	3.3
70°	2.8
72.5°	2.8
75°	2.2
77.5°	2.2
80°	1.7
82.5°	1.1
85°	0.6
87.5°	0.6
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)