

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: P885993

Luminaire Tested: ML104LSFLD2W1E-TIR1D25NFL-TL1RDMW-200LM-3000K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P885993
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: ML104LSFLD2W1E-TIR1D25NFL-TL1RDMW-200LM-3000K
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE TRIM
Light Source: (1) D2W LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 181.6 lumens
Efficiency: N/A
Efficacy: 56.8 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

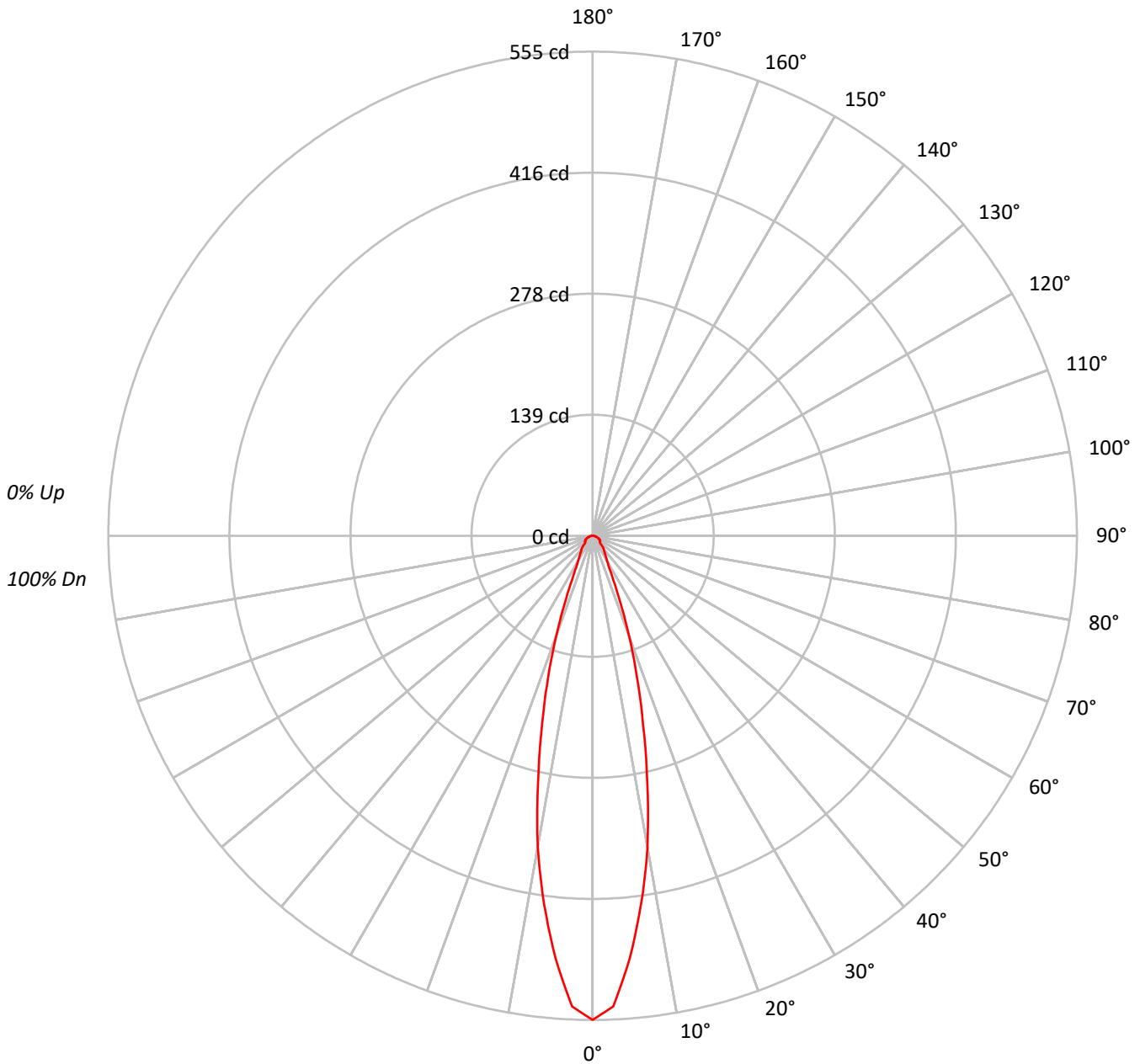
Input Watts (W): 3.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P885993

CATALOG NUMBER: ML104LSFLD2W1E-TIR1D25NFL-TL1RDMW-200LM-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P885993
 CATALOG NUMBER: ML104LSFLD2W1E-TIR1D25NFL-TL1RDMW-200LM-3000K

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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92	92
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85	85	85	85
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	86	84	81	80	80	80	80
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75	75	75	75
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71	71	71	71
6	89	80	74	70	87	79	74	70	78	73	70	77	72	69	75	72	69	67	67	67	67
7	85	76	71	67	84	76	70	67	75	70	66	73	69	66	72	68	66	64	64	64	64
8	82	73	68	64	81	73	67	64	72	67	63	71	66	63	70	66	63	61	61	61	61
9	79	70	65	61	78	70	64	61	69	64	61	68	64	60	67	63	60	59	59	59	59
10	76	67	62	59	75	67	62	59	66	62	58	66	61	58	65	61	58	57	57	57	57

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1095118
5°	963796
10°	725844
15°	455625
20°	254754
25°	121726
30°	74518
35°	58786
40°	50495
45°	34888
50°	34694
55°	36816
60°	37497
65°	35957
70°	34044
75°	32026
80°	27276
85°	27173

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 60°
 Luminance: 37497 cd/sqm



TEST NUMBER: P885993

CATALOG NUMBER: ML104LSFLD2W1E-TIR1D25NFL-TL1RDMW-200LM-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.5	23.4
10°-20°	61.8	34.0
20°-30°	28.4	15.7
30°-40°	15.5	8.6
40°-50°	10.7	5.9
50°-60°	9.4	5.2
60°-70°	7.5	4.1
70°-80°	4.4	2.4
80°-90°	1.3	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°	132.8	73.1
0°-40°	148.3	81.7
0°-60°	168.4	92.7
0°-90°	181.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	181.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	555	
5°	486	43
15°	223	62
25°	56	28
35°	24	16
45°	12	11
55°	11	9
65°	8	7
75°	4	4
85°	1	1
90°	0	



TEST NUMBER: P885993

CATALOG NUMBER: ML104LSFLD2W1E-TIR1D25NFL-TL1RDMW-200LM-3000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	554.9
2.5°	540.0
5°	486.5
7.5°	425.8
10°	362.2
12.5°	288.4
15°	223.0
17.5°	168.3
20°	121.3
22.5°	82.7
25°	55.9
27.5°	40.4
30°	32.7
32.5°	28.0
35°	24.4
37.5°	21.4
40°	19.6
42.5°	16.7
45°	12.5
47.5°	11.3
50°	11.3
52.5°	10.7
55°	10.7
57.5°	10.1
60°	9.5
62.5°	8.3
65°	7.7
67.5°	6.5
70°	5.9
72.5°	4.8
75°	4.2
77.5°	3.6
80°	2.4
82.5°	1.8
85°	1.2
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)