

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: P886036

Luminaire Tested: ML104LSFLD2W1E-TIR1D55WFL-TL1RDMB-200LM-3500K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P886036
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-132)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFLD2W1E-TIR1D55WFL-TL1RDMB-200LM-3500K
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE BLACK TRIM
Light Source: (1) D2W LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 200.6 lumens
Efficiency: N/A
Efficacy: 62.7 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.76
Luminous Opening: Circular (Dia: 0.08' x H: 0')
CIE Type: Direct

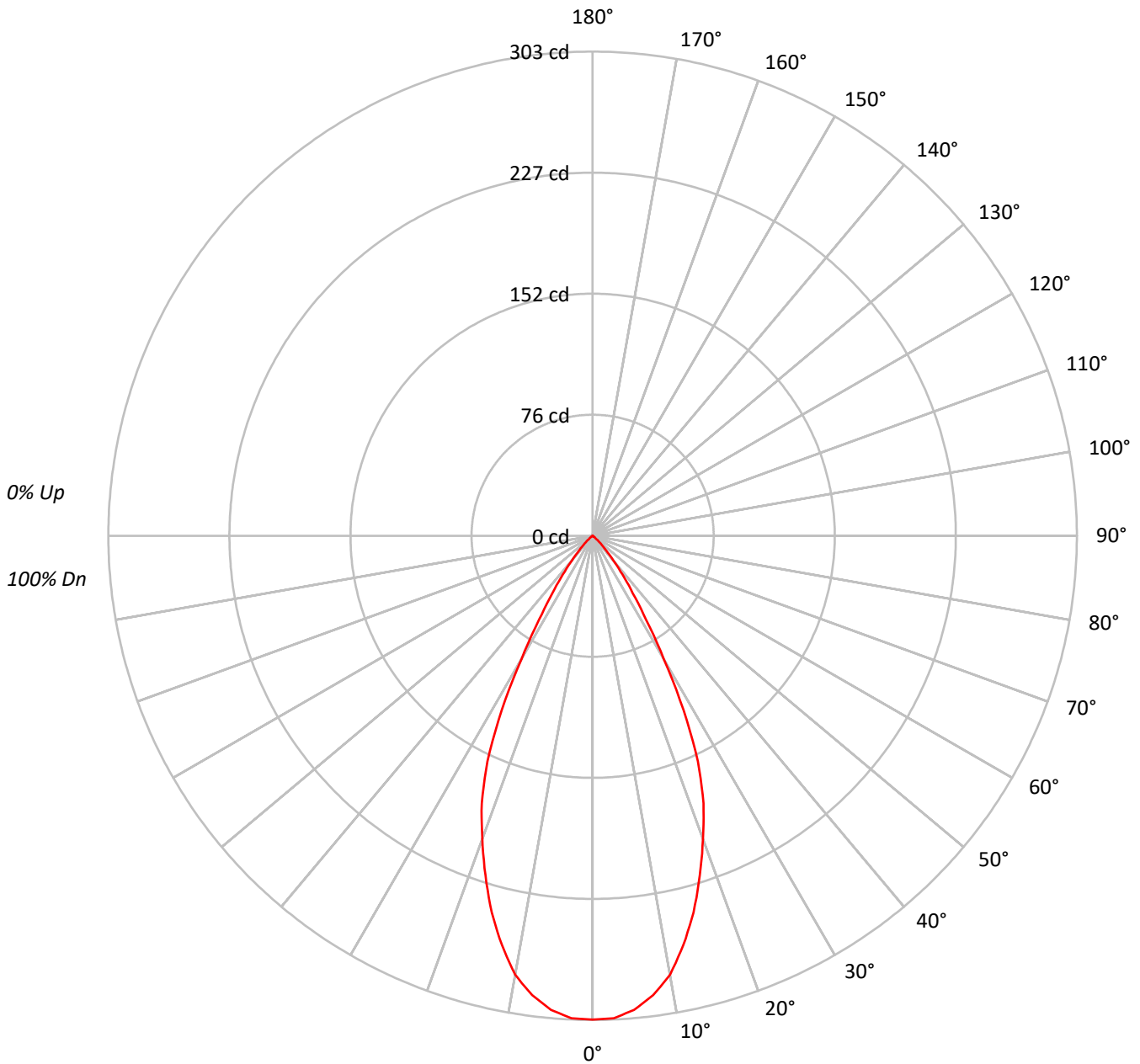
Input Watts (W): 3.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P886036

CATALOG NUMBER: ML104LSFLD2W1E-TIR1D55WFL-TL1RDMB-200LM-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P886036

CATALOG NUMBER: ML104LSFLD2W1E-TIR1D55WFL-TL1RDMB-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	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	102	100	99	98	97	96	94			
2	109	104	101	98	107	103	99	97	100	97	94	97	94	92	94	92	91	89			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	86	90	87	85	84			
4	99	92	87	84	98	91	87	83	89	85	82	87	84	81	85	83	80	79			
5	95	87	82	78	93	86	81	78	85	80	77	83	79	76	82	78	76	74			
6	91	83	77	73	89	82	77	73	80	76	72	79	75	72	78	74	71	70			
7	87	78	73	69	85	78	72	69	76	72	68	75	71	68	74	70	68	66			
8	83	74	69	65	82	74	68	65	73	68	65	72	67	64	71	67	64	63			
9	79	71	65	62	78	70	65	61	69	65	61	68	64	61	68	64	61	60			
10	76	67	62	58	75	67	62	58	66	61	58	65	61	58	65	61	58	57			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	597588
5°	589966
10°	558912
15°	498531
20°	424030
25°	339264
30°	203501
35°	105525
40°	51526
45°	21770
50°	6755
55°	2064
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21770 cd/sqm



TEST NUMBER: P886036

CATALOG NUMBER: ML104LSFLD2W1E-TIR1D55WFL-TL1RDMB-200LM-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.8	13.9
10°-20°	67.6	33.7
20°-30°	68.6	34.2
30°-40°	29.2	14.6
40°-50°	6.8	3.4
50°-60°	0.6	0.3
60°-70°	0.0	0.0
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°	164.0	81.8
0°-40°	193.2	96.3
0°-60°	200.6	100.0
0°-90°	200.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	200.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	303	
5°	298	28
15°	244	68
25°	156	69
35°	44	29
45°	8	7
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P886036

CATALOG NUMBER: ML104LSFLD2W1E-TIR1D55WFL-TL1RDMB-200LM-3500K

CANDELA DISTRIBUTION (FULL):

	0°
0°	302.8
2.5°	302.2
5°	297.8
7.5°	290.0
10°	278.9
12.5°	262.3
15°	244.0
17.5°	222.9
20°	201.9
22.5°	181.3
25°	155.8
27.5°	123.1
30°	89.3
32.5°	62.1
35°	43.8
37.5°	30.5
40°	20.0
42.5°	12.8
45°	7.8
47.5°	4.4
50°	2.2
52.5°	1.1
55°	0.6
57.5°	0.0
60°	0.0
62.5°	0.0
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)