

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: P886054

Luminaire Tested: ML104LSFLD2W1E-TIR1D55WFL-TL1SDMWB-200LM-3500K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P886054
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-151)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFLD2W1E-TIR1D55WFL-TL1SDMWB-200LM-3500K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) D2W LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 223.3 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.83 / 0.81
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

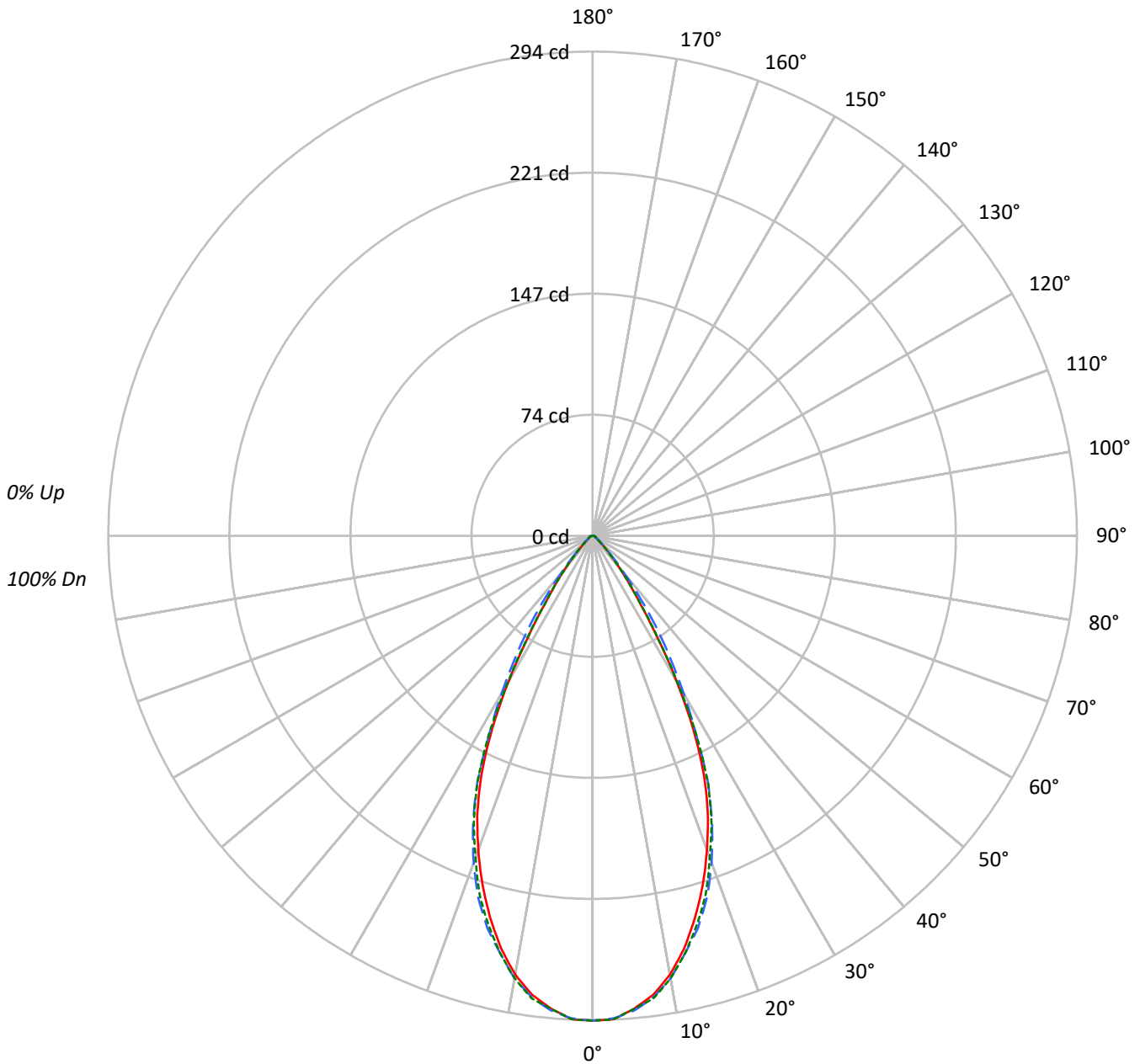
Input Watts (W): 3.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P886054

CATALOG NUMBER: ML104LSFLD2W1E-TIR1D55WFL-TL1SDMWB-200LM-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P886054

CATALOG NUMBER: ML104LSFLD2W1E-TIR1D55WFL-TL1SDMWB-200LM-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																			
1	113	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87																			
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81																			
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76																			
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71																			
6	88	80	74	70	87	79	73	69	77	73	69	76	72	69	75	71	68	67																			
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63																			
8	80	71	65	61	79	71	65	61	70	65	61	68	64	61	68	63	60	59																			
9	77	67	62	58	76	67	61	58	66	61	57	65	61	57	64	60	57	56																			
10	73	64	58	55	72	64	58	55	63	58	54	62	57	54	61	57	54	53																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	456325	456325	456325
5°	448577	450288	448577
10°	425747	429367	429367
15°	385287	395878	392348
20°	334682	348373	342930
25°	273128	283560	283560
30°	182560	197415	184529
35°	95368	124887	96503
40°	50383	61714	51597
45°	25428	29154	25428
50°	12057	16156	13263
55°	8918	10539	8918
60°	8680	8680	8680
65°	8069	8069	8069
70°	7704	7704	7704
75°	6588	6588	6588
80°	5356	5356	5356
85°	10671	10671	10671

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 29154 cd/sqm



TEST NUMBER: P886054

CATALOG NUMBER: ML104LSFLD2W1E-TIR1D55WFL-TL1SDMWB-200LM-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.1	12.1
10°-20°	67.9	30.4
20°-30°	73.3	32.8
30°-40°	37.2	16.7
40°-50°	10.5	4.7
50°-60°	3.4	1.5
60°-70°	2.1	1.0
70°-80°	1.3	0.6
80°-90°	0.4	0.2
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°	168.2	75.4
0°-40°	205.5	92.0
0°-60°	219.4	98.3
0°-90°	223.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	223.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	294	294	294	294	294	
5°	288	289	289	289	288	27
15°	240	243	247	246	244	67
25°	160	162	166	166	166	71
35°	50	55	66	56	51	34
45°	12	12	13	12	12	10
55°	3	3	4	4	3	3
65°	2	2	2	2	2	2
75°	1	1	1	1	1	1
85°	1	1	1	1	1	0
90°	0	0	0	0	0	



TEST NUMBER: P886054

CATALOG NUMBER: ML104LSFLD2W1E-TIR1D55WFL-TL1SDMWB-200LM-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	294.4	294.4	294.4	294.4	294.4
2.5°	293.8	293.3	293.3	293.8	293.8
5°	288.3	289.4	289.4	289.4	288.3
7.5°	281.1	281.6	282.7	282.7	283.3
10°	270.5	271.7	272.8	272.8	272.8
12.5°	256.7	257.8	259.5	260.0	259.5
15°	240.1	242.8	246.7	246.1	244.5
17.5°	222.3	225.6	230.6	229.0	228.4
20°	202.9	206.8	211.2	209.6	207.9
22.5°	182.9	186.3	189.6	189.6	188.5
25°	159.7	161.9	165.8	165.8	165.8
27.5°	131.9	134.7	135.8	138.0	136.4
30°	102.0	105.9	110.3	109.2	103.1
32.5°	72.6	78.7	86.5	80.9	73.7
35°	50.4	55.4	66.0	56.5	51.0
37.5°	36.0	37.7	46.0	37.7	36.6
40°	24.9	26.1	30.5	26.1	25.5
42.5°	17.2	18.3	20.0	18.3	16.6
45°	11.6	12.2	13.3	12.2	11.6
47.5°	7.2	7.8	8.9	8.3	7.8
50°	5.0	5.5	6.7	6.1	5.5
52.5°	3.9	4.4	5.0	4.4	4.4
55°	3.3	3.3	3.9	3.9	3.3
57.5°	2.8	2.8	3.3	2.8	2.8
60°	2.8	2.8	2.8	2.8	2.8
62.5°	2.2	2.2	2.2	2.2	2.2
65°	2.2	2.2	2.2	2.2	2.2
67.5°	1.7	2.2	1.7	2.2	1.7
70°	1.7	1.7	1.7	1.7	1.7
72.5°	1.7	1.7	1.7	1.7	1.7
75°	1.1	1.1	1.1	1.1	1.1
77.5°	1.1	1.1	1.1	1.1	1.1
80°	0.6	0.6	0.6	1.1	0.6
82.5°	0.6	0.6	0.6	0.6	0.6
85°	0.6	0.6	0.6	0.6	0.6
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	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





— 0°-180° - - 45°-225° - - - - 90°-270°

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)