

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: P886511

Luminaire Tested: ML204LSFLD2W1E-TIR1D55WFL-TL2SDSLB-400LM-4000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886511
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-105)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFLD2W1E-TIR1D55WFL-TL2SDSLB-400LM-4000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) D2W LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 443.9 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.86 / 0.82
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

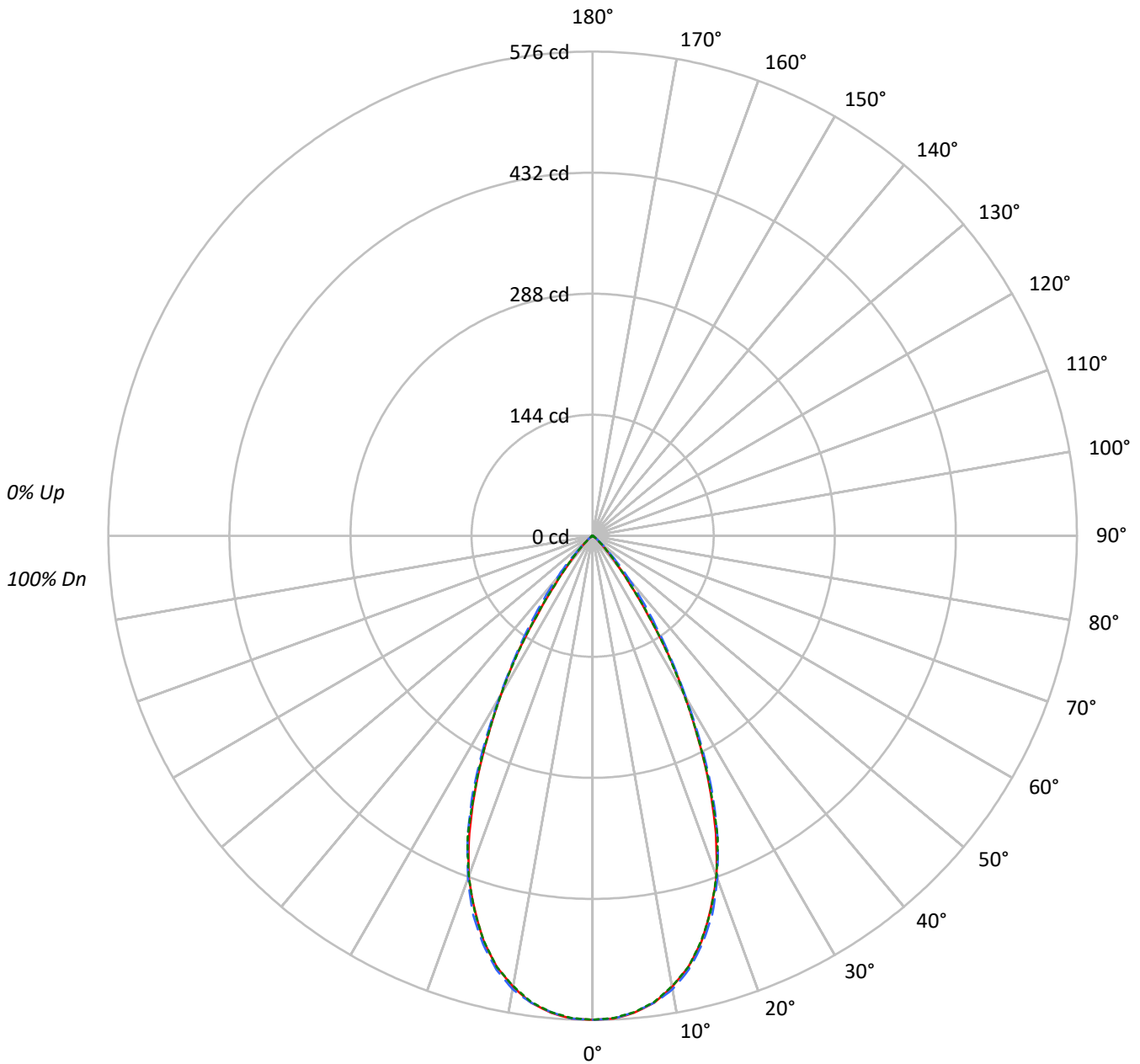
Input Watts (W): 6.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P886511

CATALOG NUMBER: ML204LSFLD2W1E-TIR1D55WFL-TL2SDSLB-400LM-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P886511

CATALOG NUMBER: ML204LSFLD2W1E-TIR1D55WFL-TL2SDSLB-400LM-4000K

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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88																			
3	103	97	93	89	101	96	92	88	93	90	87	91	88	85	89	86	84	82																			
4	98	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77																			
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	72																			
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68																			
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64																			
8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	60																			
9	78	68	63	59	77	68	63	59	67	62	59	66	62	59	65	61	58	57																			
10	74	65	59	56	73	65	59	56	64	59	56	63	59	55	62	58	55	54																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	223122	223122	223122
5°	221563	221252	221252
10°	214366	215586	214052
15°	200544	201788	200223
20°	177731	178720	177442
25°	140624	143916	141265
30°	97319	98707	96961
35°	53833	61875	54921
40°	24281	33689	24685
45°	10193	13591	10577
50°	4220	5124	4220
55°	1554	2094	1554
60°	620	620	620
65°	734	734	734
70°	906	0	906
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 13591 cd/sqm



TEST NUMBER: P886511

CATALOG NUMBER: ML204LSFLD2W1E-TIR1D55WFL-TL2SDSLB-400LM-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.6	12.1
10°-20°	139.1	31.3
20°-30°	149.9	33.8
30°-40°	78.9	17.8
40°-50°	18.8	4.2
50°-60°	2.8	0.6
60°-70°	0.7	0.2
70°-80°	0.1	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°	342.6	77.2
0°-40°	421.5	94.9
0°-60°	443.1	99.8
0°-90°	443.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	443.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	576	576	576	576	576	
5°	570	570	569	569	569	54
15°	500	500	503	500	499	139
25°	329	332	337	333	330	148
35°	114	125	131	124	116	75
45°	19	20	25	20	19	16
55°	2	2	3	2	2	3
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P886511

CATALOG NUMBER: ML204LSFLD2W1E-TIR1D55WFL-TL2SDSLB-400LM-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	575.8	575.8	575.8	575.8	575.8
2.5°	575.0	575.0	575.0	574.2	574.2
5°	569.6	569.6	568.8	568.8	568.8
7.5°	560.3	561.1	560.3	559.5	559.5
10°	544.8	546.4	547.9	547.1	544.0
12.5°	525.5	525.5	528.6	525.5	525.5
15°	499.9	499.9	503.0	499.9	499.1
17.5°	466.6	469.0	472.8	469.0	467.4
20°	431.0	431.0	433.4	433.4	430.3
22.5°	383.1	386.2	388.5	387.7	388.5
25°	328.9	332.0	336.6	332.8	330.4
27.5°	270.9	273.9	277.8	277.0	272.4
30°	217.5	221.3	220.6	219.8	216.7
32.5°	168.7	171.8	172.6	171.0	166.4
35°	113.8	124.6	130.8	123.8	116.1
37.5°	73.5	82.8	95.2	83.6	74.3
40°	48.0	51.1	66.6	54.2	48.8
42.5°	30.2	33.3	44.1	33.3	31.0
45°	18.6	20.1	24.8	20.1	19.3
47.5°	10.8	11.6	14.7	11.6	11.6
50°	7.0	7.0	8.5	7.0	7.0
52.5°	3.9	4.6	5.4	4.6	4.6
55°	2.3	2.3	3.1	2.3	2.3
57.5°	1.5	1.5	1.5	1.5	1.5
60°	0.8	0.8	0.8	0.8	0.8
62.5°	0.8	0.8	0.8	0.8	0.8
65°	0.8	0.8	0.8	0.8	0.8
67.5°	0.8	0.8	0.8	0.8	0.8
70°	0.8	0.0	0.0	0.0	0.8
72.5°	0.8	0.0	0.0	0.0	0.8
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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)