

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: P886298

Luminaire Tested: ML204LSFL9FS1E-TIR1D25NFL-TL2SDMBB-550LM-4000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886298
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-94)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL9FS1E-TIR1D25NFL-TL2SDMBB-550LM-4000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

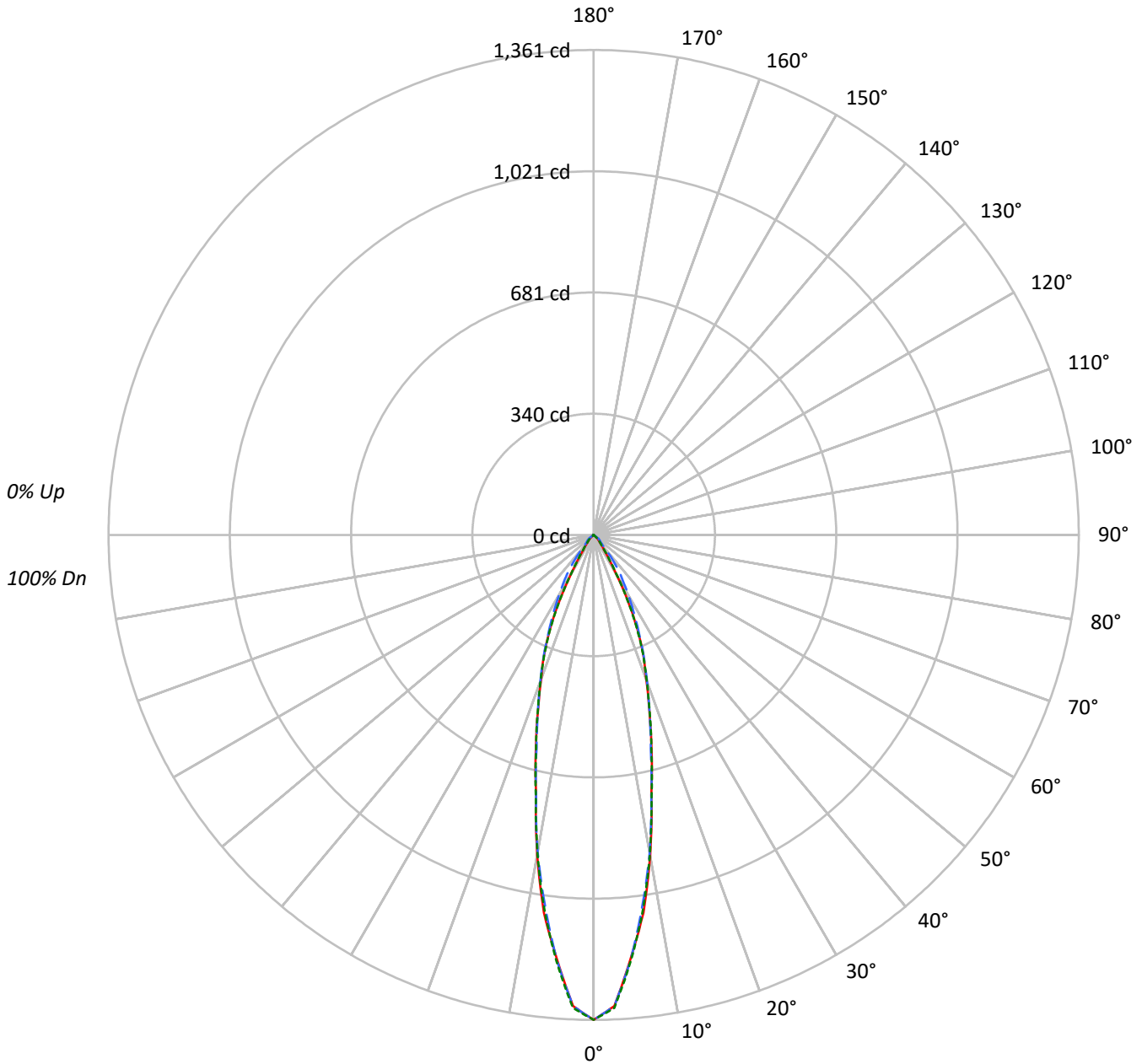
Lumens per Lamp: N/A
Luminaire Lumens: 483.0 lumens
Efficiency: N/A
Efficacy: 61.1 lumens/watt
Spacing Criteria (0/90/45): 0.45 / 0.45 / 0.54
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.9
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: P886298
CATALOG NUMBER: ML204LSFL9FS1E-TIR1D25NFL-TL2SDMBB-550LM-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P886298

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D25NFL-TL2SDMBB-550LM-4000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95								
2	110	105	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90								
3	105	100	96	92	103	98	95	91	96	93	90	94	91	89	91	89	87	86								
4	101	95	90	86	99	94	89	86	91	88	85	90	86	84	88	85	83	82								
5	97	90	85	81	95	89	84	81	87	83	80	86	82	80	84	81	79	78								
6	93	86	81	77	92	85	80	77	84	79	76	82	79	76	81	78	75	74								
7	90	82	77	73	88	81	76	73	80	76	73	79	75	72	78	74	72	71								
8	86	78	73	70	85	78	73	70	77	72	69	76	72	69	75	71	69	68								
9	83	75	70	67	82	75	70	67	74	69	66	73	69	66	72	69	66	65								
10	80	72	67	64	79	72	67	64	71	67	64	70	66	63	69	66	63	62								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	527348	527348	527348
5°	463586	464869	466581
10°	358891	355821	357159
15°	251453	247922	250570
20°	177360	180081	179174
25°	122880	126686	120529
30°	56870	86089	57363
35°	23511	57523	24599
40°	13405	23471	13961
45°	8494	14522	9097
50°	663	11997	663
55°	743	2973	743
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 14522 cd/sqm



TEST NUMBER: P886298

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D25NFL-TL2SDMBB-550LM-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.1	21.8
10°-20°	175.2	36.3
20°-30°	133.1	27.6
30°-40°	51.9	10.7
40°-50°	15.4	3.2
50°-60°	2.2	0.5
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°	413.4	85.6
0°-40°	465.3	96.3
0°-60°	483.0	100.0
0°-90°	483.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	483.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1361	1361	1361	1361	1361	
5°	1192	1198	1195	1193	1200	106
15°	627	622	618	627	625	175
25°	287	298	296	296	282	127
35°	50	66	122	68	52	37
45°	16	20	26	20	17	10
55°	1	1	4	1	1	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P886298

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D25NFL-TL2SDMBB-550LM-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1360.9	1360.9	1360.9	1360.9	1360.9
2.5°	1323.3	1324.4	1323.3	1328.9	1328.9
5°	1191.8	1198.4	1195.1	1192.9	1199.5
7.5°	1069.1	1054.7	1048.1	1052.5	1060.2
10°	912.1	907.7	904.3	908.8	907.7
12.5°	747.3	750.7	747.3	752.9	749.6
15°	626.8	622.4	618.0	626.8	624.6
17.5°	519.6	524.0	519.6	521.8	521.8
20°	430.1	437.8	436.7	437.8	434.5
22.5°	363.7	362.6	364.8	363.7	360.4
25°	287.4	298.5	296.3	296.3	281.9
27.5°	205.6	228.8	241.0	232.2	203.4
30°	127.1	165.8	192.4	160.3	128.2
32.5°	80.7	106.1	153.7	103.9	81.8
35°	49.7	66.3	121.6	68.5	52.0
37.5°	35.4	47.5	84.0	47.5	35.4
40°	26.5	33.2	46.4	33.2	27.6
42.5°	21.0	25.4	31.0	25.4	22.1
45°	15.5	19.9	26.5	19.9	16.6
47.5°	4.4	13.3	23.2	13.3	6.6
50°	1.1	2.2	19.9	4.4	1.1
52.5°	1.1	1.1	14.4	1.1	1.1
55°	1.1	1.1	4.4	1.1	1.1
57.5°	0.0	0.0	1.1	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
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)