

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: P886379

Luminaire Tested: ML204LSFL9FS1E-TIR1D40FL-TL2SDSLB-550LM-5000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-99)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL9FS1E-TIR1D40FL-TL2SDSLB-550LM-5000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 699.6 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

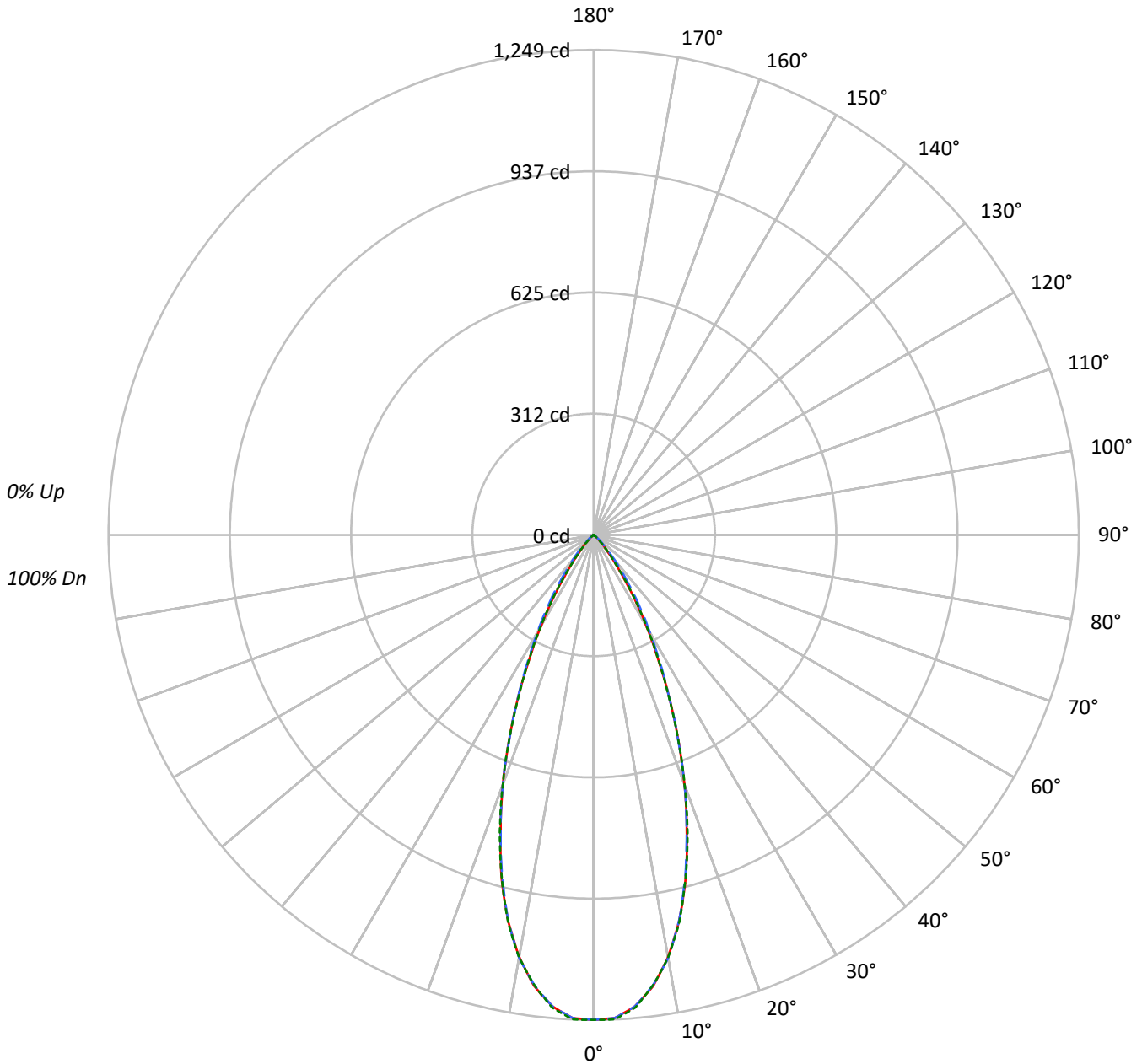
Input Watts (W): 7.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P886379

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D40FL-TL2SDSLB-550LM-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P886379

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D40FL-TL2SDSLB-550LM-5000K

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	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95																			
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89																			
3	104	99	94	91	102	97	93	90	95	91	88	92	89	87	90	88	86	84																			
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80																			
5	95	88	83	79	94	87	82	79	85	81	78	84	80	77	82	79	77	75																			
6	91	83	78	74	90	83	78	74	81	77	73	80	76	73	79	75	73	71																			
7	88	79	74	70	86	79	74	70	77	73	70	76	72	69	75	72	69	68																			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64																			
9	81	72	67	63	79	71	66	63	71	66	63	70	66	63	69	65	62	61																			
10	77	69	63	60	76	68	63	60	67	63	60	67	63	60	66	62	59	58																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	483987	483987	483987
5°	474088	474088	475450
10°	434281	435225	434753
15°	367270	365425	366829
20°	282184	282184	282184
25°	196206	196206	194240
30°	121661	128909	122153
35°	62111	77485	64287
40°	28226	41732	29390
45°	11453	17810	11453
50°	4220	8380	4220
55°	2365	2365	2365
60°	930	930	930
65°	1100	1100	1100
70°	1360	0	1360
75°	1797	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 17810 cd/sqm



TEST NUMBER: P886379

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D40FL-TL2SDSLB-550LM-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.7	16.1
10°-20°	250.7	35.8
20°-30°	211.0	30.2
30°-40°	97.0	13.9
40°-50°	23.2	3.3
50°-60°	3.5	0.5
60°-70°	1.2	0.2
70°-80°	0.2	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°	574.5	82.1
0°-40°	671.5	96.0
0°-60°	698.2	99.8
0°-90°	699.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	699.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1249	1249	1249	1249	1249	
5°	1219	1220	1219	1220	1222	113
15°	916	918	911	911	914	251
25°	459	460	459	460	454	210
35°	131	150	164	151	136	88
45°	21	26	32	27	21	19
55°	4	4	4	4	4	3
65°	1	1	1	1	1	1
75°	1	0	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P886379

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D40FL-TL2SDSLB-550LM-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1249.0	1249.0	1249.0	1249.0	1249.0
2.5°	1245.5	1244.3	1245.5	1246.7	1249.0
5°	1218.8	1219.9	1218.8	1219.9	1222.3
7.5°	1172.3	1173.5	1170.0	1171.1	1170.0
10°	1103.7	1106.1	1106.1	1106.1	1104.9
12.5°	1017.8	1017.8	1016.6	1013.1	1020.1
15°	915.5	917.9	910.9	910.9	914.4
17.5°	797.0	798.2	795.9	802.8	804.0
20°	684.3	685.5	684.3	683.2	684.3
22.5°	567.0	571.6	565.8	573.9	568.1
25°	458.9	460.1	458.9	460.1	454.3
27.5°	355.5	357.8	368.3	362.5	357.8
30°	271.9	277.7	288.1	277.7	273.0
32.5°	197.5	211.5	223.1	214.9	201.0
35°	131.3	149.9	163.8	151.0	135.9
37.5°	87.1	96.4	117.3	98.8	88.3
40°	55.8	62.7	82.5	63.9	58.1
42.5°	37.2	41.8	53.4	43.0	38.3
45°	20.9	25.6	32.5	26.7	20.9
47.5°	10.5	13.9	22.1	13.9	10.5
50°	7.0	7.0	13.9	7.0	7.0
52.5°	4.6	4.6	7.0	4.6	4.6
55°	3.5	3.5	3.5	3.5	3.5
57.5°	2.3	2.3	2.3	2.3	2.3
60°	1.2	1.2	1.2	1.2	1.2
62.5°	1.2	1.2	1.2	1.2	1.2
65°	1.2	1.2	1.2	1.2	1.2
67.5°	1.2	1.2	1.2	1.2	1.2
70°	1.2	1.2	0.0	1.2	1.2
72.5°	1.2	0.0	0.0	0.0	1.2
75°	1.2	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)