

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: P886377

Luminaire Tested: ML204LSFL9FS1E-TIR1D40FL-TL2SDSLB-550LM-3500K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886377
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-3500K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 643.0 lumens
Efficiency: N/A
Efficacy: 81.4 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

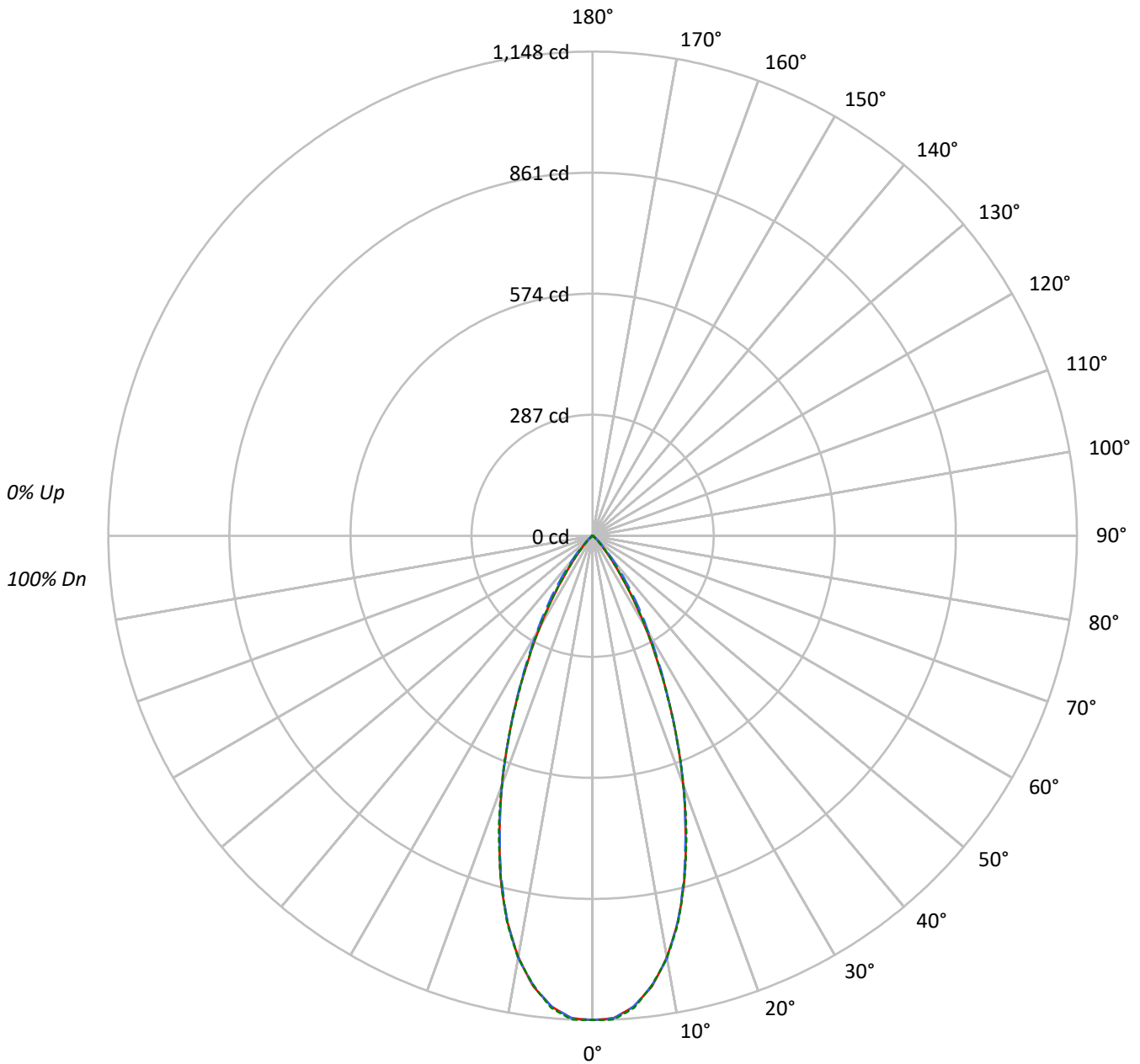
Input Watts (W): 7.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P886377

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D40FL-TL2SDSLB-550LM-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P886377

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D40FL-TL2SDSLB-550LM-3500K

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	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°	444849	444849	444849
5°	435735	435735	436980
10°	399183	400009	399576
15°	337584	335859	337142
20°	259380	259380	259380
25°	180344	180344	178506
30°	111817	118484	112309
35°	57097	71241	59084
40°	25950	38343	27012
45°	10522	16385	10522
50°	3858	7716	3858
55°	2162	2162	2162
60°	852	852	852
65°	1009	1009	1009
70°	1246	0	1246
75°	1647	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 16385 cd/sqm



TEST NUMBER: P886377

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D40FL-TL2SDSLB-550LM-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.6	16.1
10°-20°	230.4	35.8
20°-30°	194.0	30.2
30°-40°	89.2	13.9
40°-50°	21.3	3.3
50°-60°	3.2	0.5
60°-70°	1.1	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°	528.0	82.1
0°-40°	617.2	96.0
0°-60°	641.7	99.8
0°-90°	643.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	643.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1148	1148	1148	1148	1148	
5°	1120	1121	1120	1121	1123	104
15°	842	844	837	837	840	230
25°	422	423	422	423	418	193
35°	121	138	151	139	125	81
45°	19	24	30	25	19	17
55°	3	3	3	3	3	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: P886377

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D40FL-TL2SDSLB-550LM-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1148.0	1148.0	1148.0	1148.0	1148.0
2.5°	1144.8	1143.7	1144.8	1145.8	1148.0
5°	1120.2	1121.3	1120.2	1121.3	1123.4
7.5°	1077.5	1078.6	1075.3	1076.4	1075.3
10°	1014.5	1016.6	1016.6	1016.6	1015.5
12.5°	935.5	935.5	934.4	931.2	937.6
15°	841.5	843.6	837.2	837.2	840.4
17.5°	732.6	733.6	731.5	737.9	739.0
20°	629.0	630.0	629.0	627.9	629.0
22.5°	521.1	525.4	520.1	527.5	522.2
25°	421.8	422.9	421.8	422.9	417.5
27.5°	326.8	328.9	338.5	333.2	328.9
30°	249.9	255.2	264.8	255.2	251.0
32.5°	181.5	194.4	205.0	197.6	184.7
35°	120.7	137.8	150.6	138.8	124.9
37.5°	80.1	88.6	107.9	90.8	81.2
40°	51.3	57.7	75.8	58.7	53.4
42.5°	34.2	38.4	49.1	39.5	35.2
45°	19.2	23.5	29.9	24.6	19.2
47.5°	9.6	12.8	20.3	12.8	9.6
50°	6.4	6.4	12.8	6.4	6.4
52.5°	4.3	4.3	6.4	4.3	4.3
55°	3.2	3.2	3.2	3.2	3.2
57.5°	2.1	2.1	2.1	2.1	2.1
60°	1.1	1.1	1.1	1.1	1.1
62.5°	1.1	1.1	1.1	1.1	1.1
65°	1.1	1.1	1.1	1.1	1.1
67.5°	1.1	1.1	1.1	1.1	1.1
70°	1.1	1.1	0.0	1.1	1.1
72.5°	1.1	0.0	0.0	0.0	1.1
75°	1.1	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)