

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: P886349

Luminaire Tested: ML204LSFL9FS1E-TIR1D40FL-TL2RDSLb-550LM-5000K

Issue Date: 6/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886349  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-81)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFL9FS1E-TIR1D40FL-TL2RDSL B-550LM-5000K  
Description: 2IN ROUND 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: 690.7 lumens  
Efficiency: N/A  
Efficacy: 87.4 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

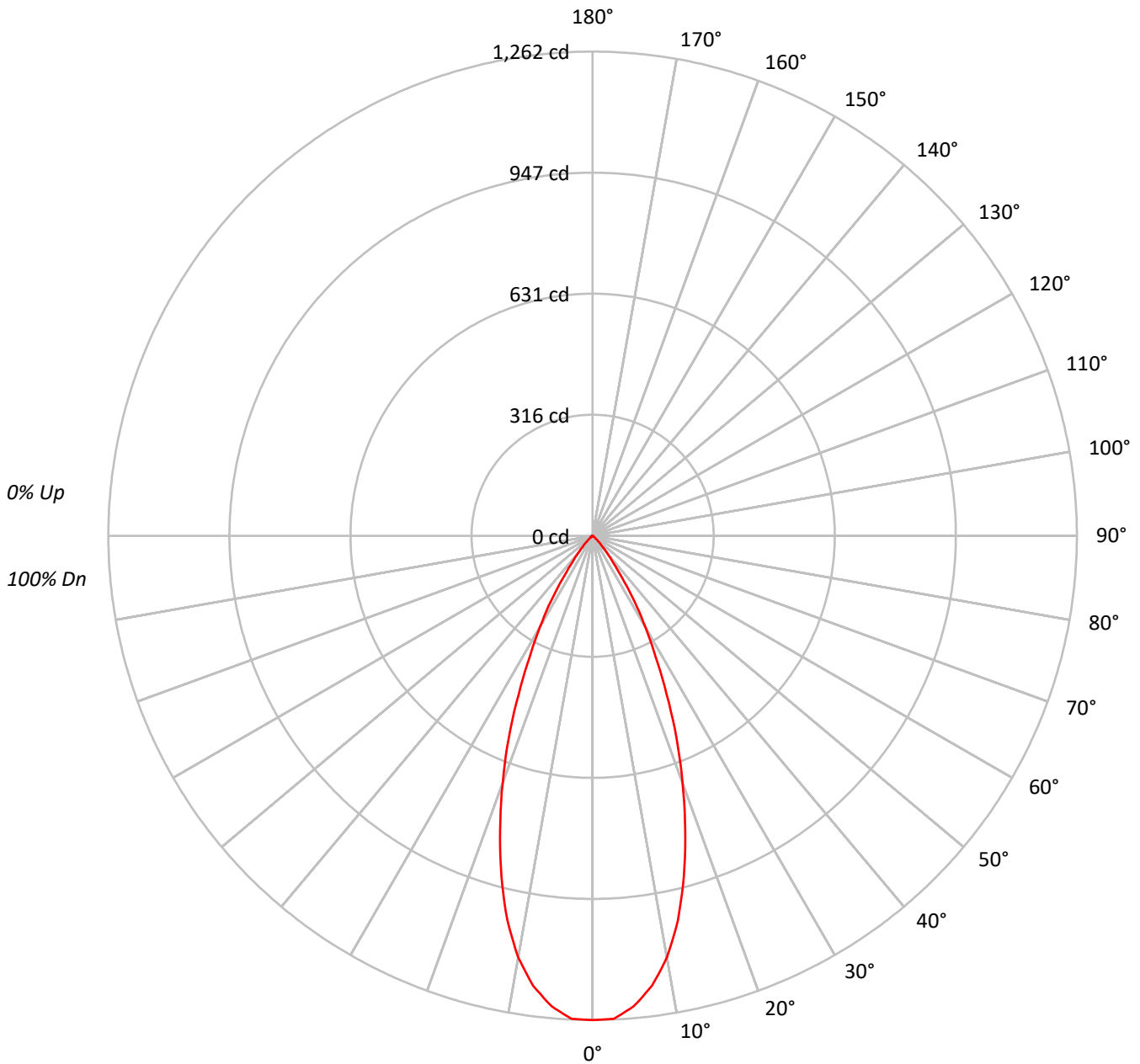
Input Watts (W): 7.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P886349

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D40FL-TL2RDSL B-550LM-5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P886349

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D40FL-TL2RDSLb-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	93	91	89																			
3	104	99	94	91	103	97	93	90	95	91	89	92	90	87	90	88	86	84																			
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80																			
5	96	88	83	79	94	87	83	79	86	81	78	84	80	78	83	79	77	76																			
6	92	84	78	75	90	83	78	74	82	77	74	80	76	73	79	76	73	72																			
7	88	80	74	71	87	79	74	70	78	73	70	77	73	70	76	72	69	68																			
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	72	69	66	65																			
9	81	72	67	64	80	72	67	64	71	66	63	70	66	63	69	66	63	62																			
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	622842
5°	609720
10°	559156
15°	469257
20°	359760
25°	248457
30°	156156
35°	80468
40°	37420
45°	14583
50°	6217
55°	3011
60°	2270
65°	1401
70°	1731
75°	2288
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14583 cd/sqm



TEST NUMBER: P886349

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D40FL-TL2RDSLb-550LM-5000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.9	16.5
10°-20°	252.2	36.5
20°-30°	209.9	30.4
30°-40°	89.7	13.0
40°-50°	19.1	2.8
50°-60°	3.7	0.5
60°-70°	1.3	0.2
70°-80°	0.8	0.1
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°	576.0	83.4
0°-40°	665.7	96.4
0°-60°	688.6	99.7
0°-90°	690.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	690.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1262	
5°	1231	114
15°	919	252
25°	456	210
35°	134	90
45°	21	19
55°	4	4
65°	1	1
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P886349

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D40FL-TL2RDSL B-550LM-5000K

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1262.4
2.5°	1260.1
5°	1231.1
7.5°	1183.5
10°	1116.1
12.5°	1026.7
15°	918.7
17.5°	802.5
20°	685.2
22.5°	571.4
25°	456.4
27.5°	355.4
30°	274.1
32.5°	203.2
35°	133.6
37.5°	85.9
40°	58.1
42.5°	37.2
45°	20.9
47.5°	10.5
50°	8.1
52.5°	5.8
55°	3.5
57.5°	2.3
60°	2.3
62.5°	1.2
65°	1.2
67.5°	1.2
70°	1.2
72.5°	1.2
75°	1.2
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	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





Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

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)