

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: P886347

Luminaire Tested: ML204LSFL9FS1E-TIR1D40FL-TL2RDSLb-550LM-3500K

Issue Date: 6/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886347  
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-3500K  
Description: 2IN ROUND 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: 634.8 lumens  
Efficiency: N/A  
Efficacy: 80.4 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

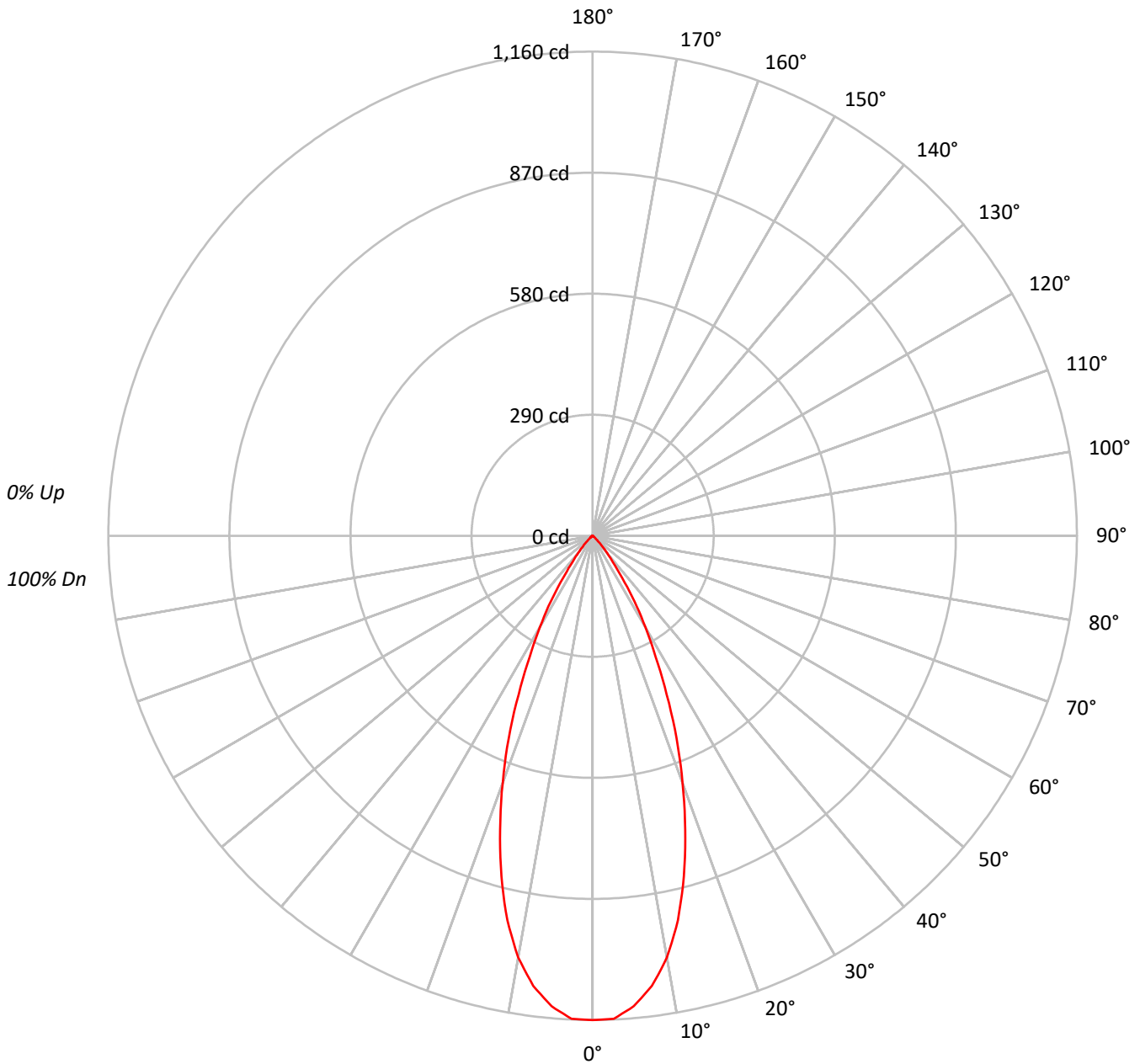
Input Watts (W): 7.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P886347

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D40FL-TL2RDSL B-550LM-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P886347

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D40FL-TL2RDSLb-550LM-3500K

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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	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	67	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°	572468
5°	560391
10°	513916
15°	431306
20°	330672
25°	228369
30°	143509
35°	73963
40°	34393
45°	13397
50°	5757
55°	2753
60°	2072
65°	1284
70°	1587
75°	2097
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13397 cd/sqm



TEST NUMBER: P886347

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D40FL-TL2RDSL B-550LM-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.6	16.5
10°-20°	231.8	36.5
20°-30°	192.9	30.4
30°-40°	82.5	13.0
40°-50°	17.6	2.8
50°-60°	3.4	0.5
60°-70°	1.2	0.2
70°-80°	0.7	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°	529.4	83.4
0°-40°	611.9	96.4
0°-60°	632.9	99.7
0°-90°	634.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	634.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1160	
5°	1132	105
15°	844	232
25°	420	193
35°	123	82
45°	19	18
55°	3	3
65°	1	1
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P886347

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D40FL-TL2RDSL B-550LM-3500K

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1160.3
2.5°	1158.2
5°	1131.5
7.5°	1087.7
10°	1025.8
12.5°	943.6
15°	844.4
17.5°	737.6
20°	629.8
22.5°	525.2
25°	419.5
27.5°	326.6
30°	251.9
32.5°	186.8
35°	122.8
37.5°	79.0
40°	53.4
42.5°	34.2
45°	19.2
47.5°	9.6
50°	7.5
52.5°	5.3
55°	3.2
57.5°	2.1
60°	2.1
62.5°	1.1
65°	1.1
67.5°	1.1
70°	1.1
72.5°	1.1
75°	1.1
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)