

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: P886284

Luminaire Tested: ML204LSFL9FS1E-TIR1D25NFL-TL2RDSL-550LM-5000K

Issue Date: 7/18/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886284  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-72)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 7/18/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFL9FS1E-TIR1D25NFL-TL2RDSL-550LM-5000K  
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

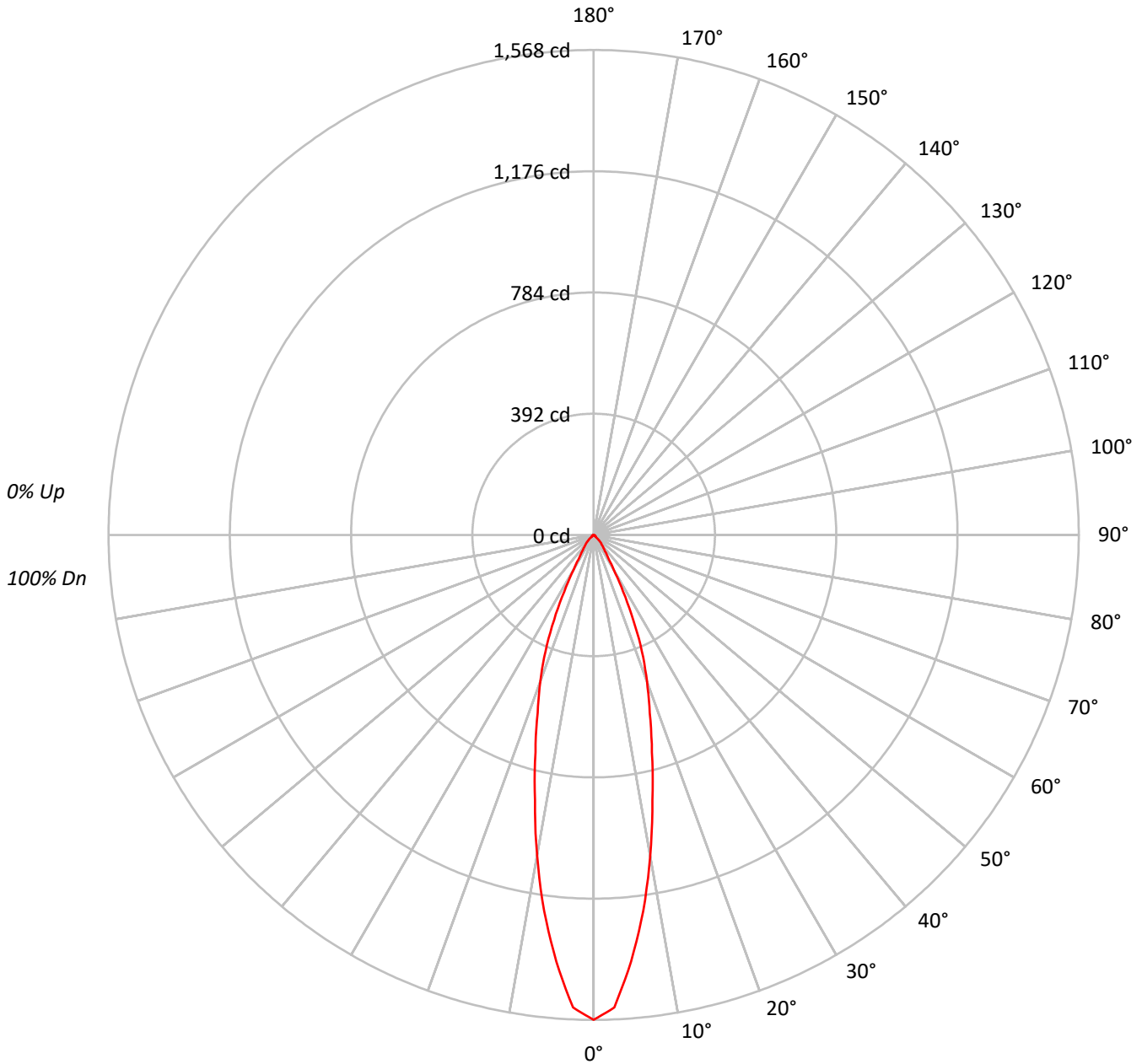
Lumens per Lamp: N/A  
Luminaire Lumens: 532.8 lumens  
Efficiency: N/A  
Efficacy: 67.4 lumens/watt  
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.53  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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: P886284  
CATALOG NUMBER: ML204LSFL9FS1E-TIR1D25NFL-TL2RDSL-550LM-5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P886284

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D25NFL-TL2RDSL-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	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	92	88	85	90	87	84	88	85	83	82																			
5	97	90	85	82	96	89	85	81	88	84	81	86	83	80	85	82	79	78																			
6	93	86	81	77	92	85	81	77	84	80	77	83	79	76	81	78	76	74																			
7	90	82	77	74	89	82	77	74	80	76	73	79	76	73	78	75	72	71																			
8	87	79	74	70	86	78	74	70	77	73	70	76	73	70	75	72	69	68																			
9	84	76	71	67	83	75	71	67	74	70	67	74	70	67	73	69	67	66																			
10	81	73	68	65	80	72	68	65	72	67	65	71	67	64	70	67	64	63																			

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

	0°
0°	773570
5°	685644
10°	527744
15°	371391
20°	264044
25°	165003
30°	72808
35°	38487
40°	26213
45°	16188
50°	6217
55°	4989
60°	3454
65°	2685
70°	1731
75°	2288
80°	3410
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16188 cd/sqm



TEST NUMBER: P886284

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D25NFL-TL2RDSL-550LM-5000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.9	22.9
10°-20°	203.7	38.2
20°-30°	137.3	25.8
30°-40°	43.6	8.2
40°-50°	17.1	3.2
50°-60°	5.2	1.0
60°-70°	2.6	0.5
70°-80°	1.3	0.2
80°-90°	0.2	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°	462.8	86.9
0°-40°	506.5	95.1
0°-60°	528.8	99.2
0°-90°	532.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	532.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1568	
5°	1384	122
15°	727	204
25°	303	137
35°	64	44
45°	23	17
55°	6	5
65°	2	3
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P886284

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D25NFL-TL2RDSL-550LM-5000K

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1567.9
2.5°	1529.6
5°	1384.4
7.5°	1226.5
10°	1053.4
12.5°	878.0
15°	727.1
17.5°	602.8
20°	502.9
22.5°	407.7
25°	303.1
27.5°	205.6
30°	127.8
32.5°	84.8
35°	63.9
37.5°	51.1
40°	40.7
42.5°	32.5
45°	23.2
47.5°	10.5
50°	8.1
52.5°	7.0
55°	5.8
57.5°	4.6
60°	3.5
62.5°	3.5
65°	2.3
67.5°	2.3
70°	1.2
72.5°	1.2
75°	1.2
77.5°	1.2
80°	1.2
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)