

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: P886285

Luminaire Tested: ML204LSFL9FS1E-TIR1D25NFL-TL2RDSLb-550LM-2700K

Issue Date: 7/18/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886285  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-75)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 7/18/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFL9FS1E-TIR1D25NFL-TL2RDSL B-550LM-2700K  
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER BAFFLED TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

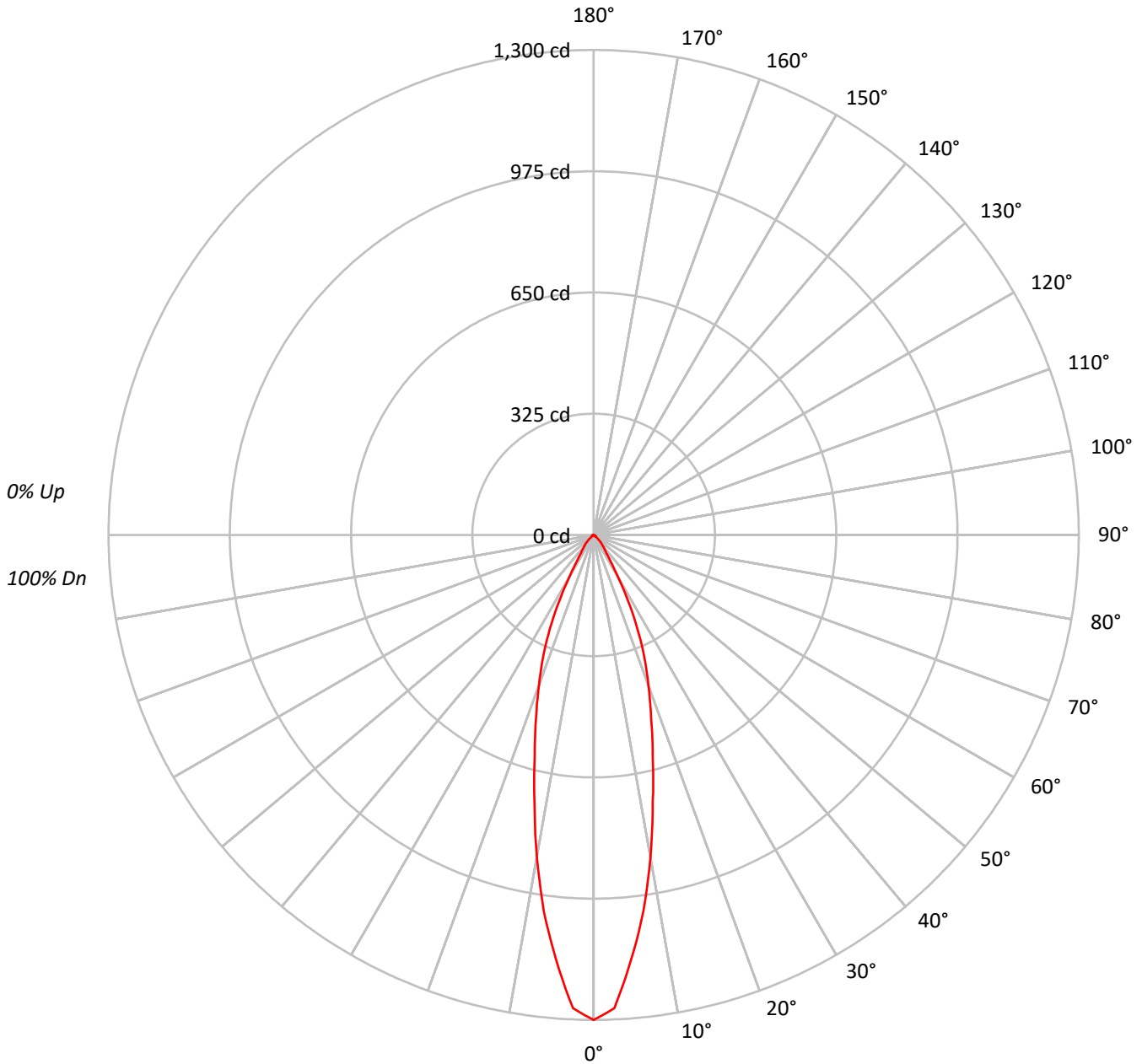
Lumens per Lamp: N/A  
Luminaire Lumens: 464.5 lumens  
Efficiency: N/A  
Efficacy: 58.8 lumens/watt  
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.54  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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: P886285  
CATALOG NUMBER: ML204LSFL9FS1E-TIR1D25NFL-TL2RDSL B-550LM-2700K

### Luminous Intensity Polar Plot





TEST NUMBER: P886285

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D25NFL-TL2RDSLB-550LM-2700K

**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			100																
1	114	112	109	107	112	110	108	106	106	104	103	102	101	100	98	98	97	95			95																
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	90			90																
3	105	99	95	92	103	98	94	91	95	92	89	93	90	88	91	89	87	85			85																
4	101	94	89	86	99	93	89	85	91	87	84	89	86	83	87	85	82	81			81																
5	97	89	84	81	95	89	84	80	87	83	80	85	82	79	84	81	78	77			77																
6	93	85	80	76	91	85	80	76	83	79	76	82	78	75	81	77	75	74			74																
7	89	81	76	73	88	81	76	73	80	75	72	78	75	72	77	74	71	70			70																
8	86	78	73	69	85	77	73	69	76	72	69	75	72	69	75	71	68	67			67																
9	83	75	70	66	82	74	69	66	73	69	66	73	69	66	72	68	66	64			64																
10	80	72	67	64	79	71	67	63	71	66	63	70	66	63	69	66	63	62			62																

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

	0°
0°	641541
5°	567226
10°	438968
15°	311629
20°	224771
25°	150849
30°	73492
35°	35536
40°	24474
45°	16048
50°	6140
55°	4301
60°	3947
65°	2335
70°	2885
75°	1906
80°	2841
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16048 cd/sqm



TEST NUMBER: P886285

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D25NFL-TL2RDSLb-550LM-2700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.2	21.8
10°-20°	171.2	36.9
20°-30°	124.4	26.8
30°-40°	41.9	9.0
40°-50°	17.1	3.7
50°-60°	4.9	1.1
60°-70°	2.5	0.5
70°-80°	1.2	0.3
80°-90°	0.1	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°	396.8	85.4
0°-40°	438.7	94.5
0°-60°	460.7	99.2
0°-90°	464.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	464.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1300	
5°	1145	101
15°	610	171
25°	277	124
35°	59	42
45°	23	17
55°	5	5
65°	2	2
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P886285

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D25NFL-TL2RDSLb-550LM-2700K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1300.3
2.5°	1270.3
5°	1145.3
7.5°	1019.2
10°	876.2
12.5°	732.2
15°	610.1
17.5°	512.1
20°	428.1
22.5°	355.1
25°	277.1
27.5°	200.0
30°	129.0
32.5°	84.0
35°	59.0
37.5°	47.0
40°	38.0
42.5°	31.0
45°	23.0
47.5°	13.0
50°	8.0
52.5°	7.0
55°	5.0
57.5°	4.0
60°	4.0
62.5°	3.0
65°	2.0
67.5°	2.0
70°	2.0
72.5°	1.0
75°	1.0
77.5°	1.0
80°	1.0
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)