

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: P886288

Luminaire Tested: ML204LSFL9FS1E-TIR1D25NFL-TL2RDSLb-550LM-4000K

Issue Date: 7/18/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886288  
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-4000K  
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER BAFFLED TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

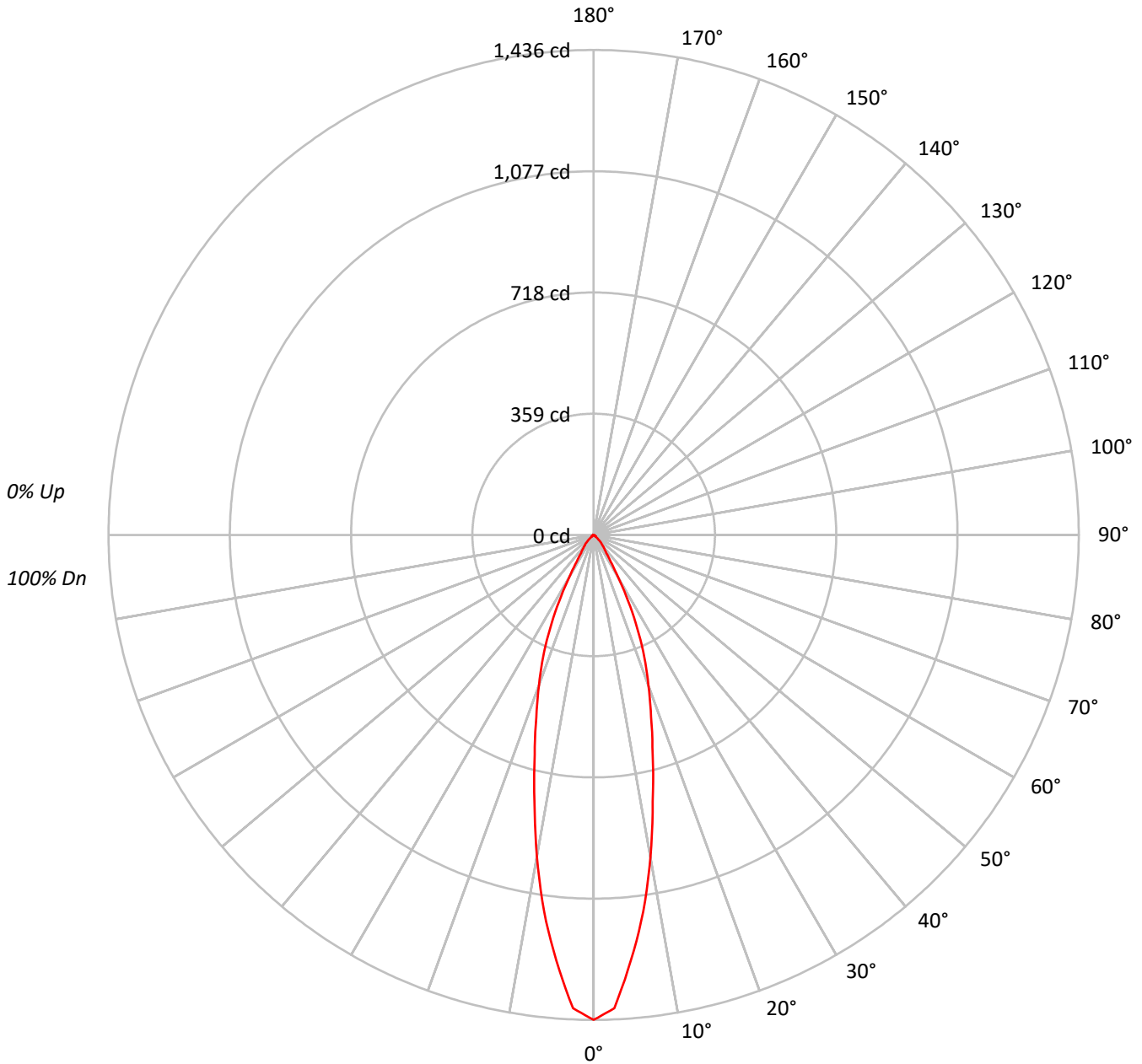
Lumens per Lamp: N/A  
Luminaire Lumens: 512.9 lumens  
Efficiency: N/A  
Efficacy: 64.9 lumens/watt  
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.54  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.9  
Input Voltage (V): NR  
Input Current (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



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### Luminous Intensity Polar Plot





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

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

	0°
0°	708394
5°	626311
10°	484709
15°	344115
20°	248188
25°	166527
30°	81183
35°	39270
40°	27051
45°	17723
50°	6755
55°	4731
60°	4342
65°	2568
70°	3174
75°	2097
80°	3125
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17723 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.7	21.8
10°-20°	189.1	36.9
20°-30°	137.4	26.8
30°-40°	46.3	9.0
40°-50°	18.9	3.7
50°-60°	5.4	1.0
60°-70°	2.7	0.5
70°-80°	1.3	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°	438.1	85.4
0°-40°	484.5	94.5
0°-60°	508.7	99.2
0°-90°	512.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	512.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1436	
5°	1265	112
15°	674	189
25°	306	137
35°	65	46
45°	25	19
55°	6	5
65°	2	3
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1435.8
2.5°	1402.7
5°	1264.6
7.5°	1125.4
10°	967.5
12.5°	808.5
15°	673.7
17.5°	565.5
20°	472.7
22.5°	392.1
25°	305.9
27.5°	220.9
30°	142.5
32.5°	92.8
35°	65.2
37.5°	51.9
40°	42.0
42.5°	34.2
45°	25.4
47.5°	14.4
50°	8.8
52.5°	7.7
55°	5.5
57.5°	4.4
60°	4.4
62.5°	3.3
65°	2.2
67.5°	2.2
70°	2.2
72.5°	1.1
75°	1.1
77.5°	1.1
80°	1.1
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

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— 0°-180°

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(END OF REPORT)