

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: P886331

Luminaire Tested: ML204LSFL9FS1E-TIR1D40FL-TL2RDMW-550LM-3000K

Issue Date: 6/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886331  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-77)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFL9FS1E-TIR1D40FL-TL2RDMW-550LM-3000K  
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE WHITE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 618.6 lumens  
Efficiency: N/A  
Efficacy: 78.3 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.67  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

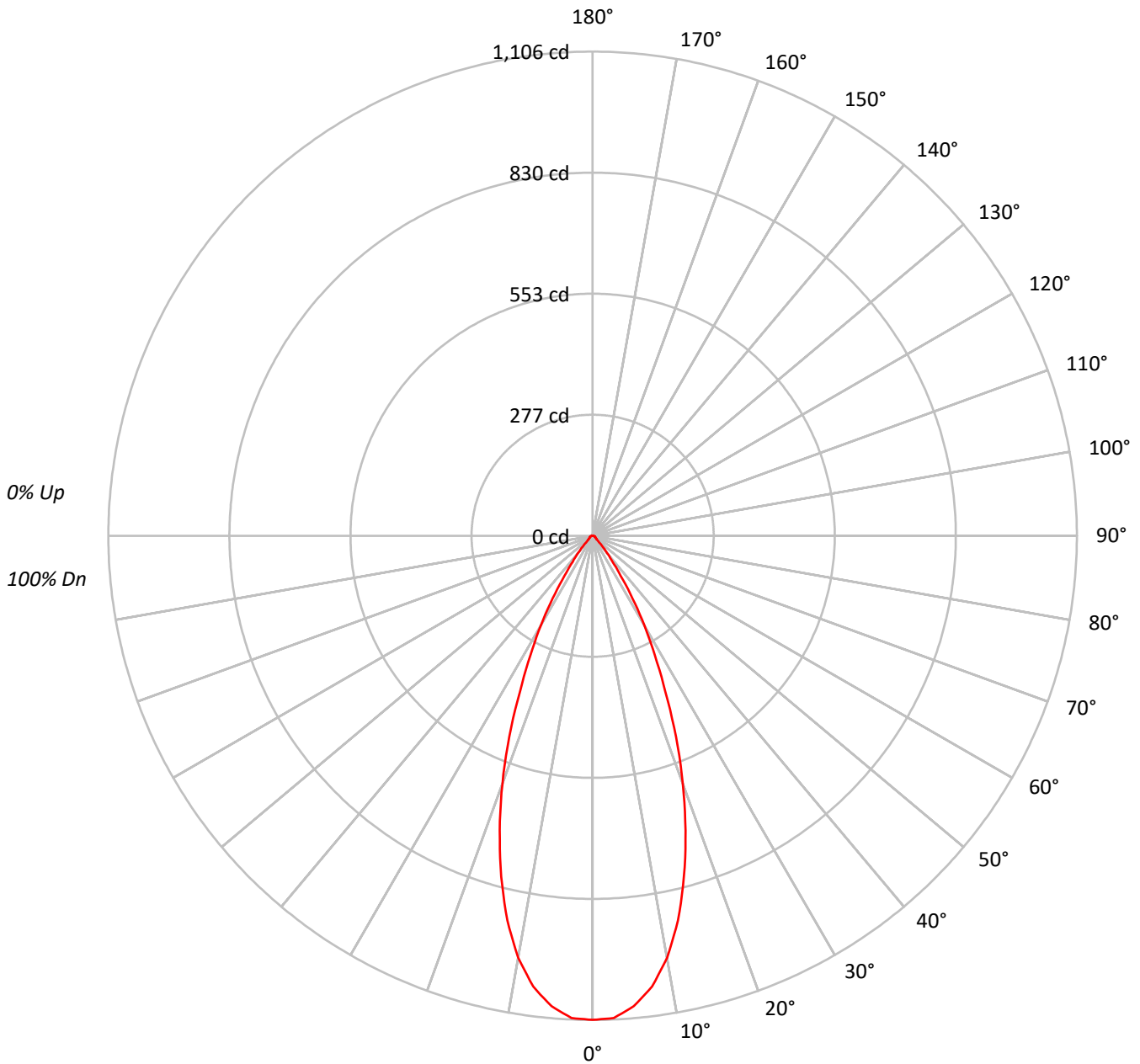
Input Watts (W): 7.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**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	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88																			
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	85	83																			
4	99	92	87	83	97	91	86	83	89	85	82	87	83	81	85	82	80	78																			
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74																			
6	91	83	77	73	89	82	77	73	80	76	72	79	75	72	78	74	71	70																			
7	87	78	73	69	86	78	73	69	77	72	69	75	71	68	74	71	68	67																			
8	83	75	69	65	82	74	69	65	73	68	65	72	68	65	71	67	65	63																			
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	64	61	60																			
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	65	62	59	58																			

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

	0°
0°	545530
5°	534341
10°	490270
15°	411743
20°	316339
25°	213780
30°	134223
35°	67217
40°	33298
45°	14443
50°	8750
55°	7140
60°	7105
65°	7238
70°	7501
75°	7816
80°	8808
85°	5661

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14443 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.8	16.1
10°-20°	221.5	35.8
20°-30°	181.9	29.4
30°-40°	76.1	12.3
40°-50°	18.9	3.1
50°-60°	8.1	1.3
60°-70°	6.4	1.0
70°-80°	4.4	0.7
80°-90°	1.5	0.2
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°	503.2	81.3
0°-40°	579.3	93.7
0°-60°	606.3	98.0
0°-90°	618.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	618.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1106	
5°	1079	100
15°	806	221
25°	393	182
35°	112	76
45°	21	19
55°	8	8
65°	6	6
75°	4	4
85°	1	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1105.7
2.5°	1102.6
5°	1078.9
7.5°	1038.6
10°	978.6
12.5°	900.1
15°	806.1
17.5°	705.8
20°	602.5
22.5°	497.1
25°	392.7
27.5°	306.9
30°	235.6
32.5°	169.5
35°	111.6
37.5°	74.4
40°	51.7
42.5°	34.1
45°	20.7
47.5°	13.4
50°	11.4
52.5°	10.3
55°	8.3
57.5°	8.3
60°	7.2
62.5°	7.2
65°	6.2
67.5°	6.2
70°	5.2
72.5°	5.2
75°	4.1
77.5°	3.1
80°	3.1
82.5°	2.1
85°	1.0
87.5°	1.0
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)