

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: P886344

Luminaire Tested: ML204LSFL9FS1E-TIR1D40FL-TL2RDSL-550LM-5000K

Issue Date: 6/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886344  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-78)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFL9FS1E-TIR1D40FL-TL2RDSL-550LM-5000K  
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

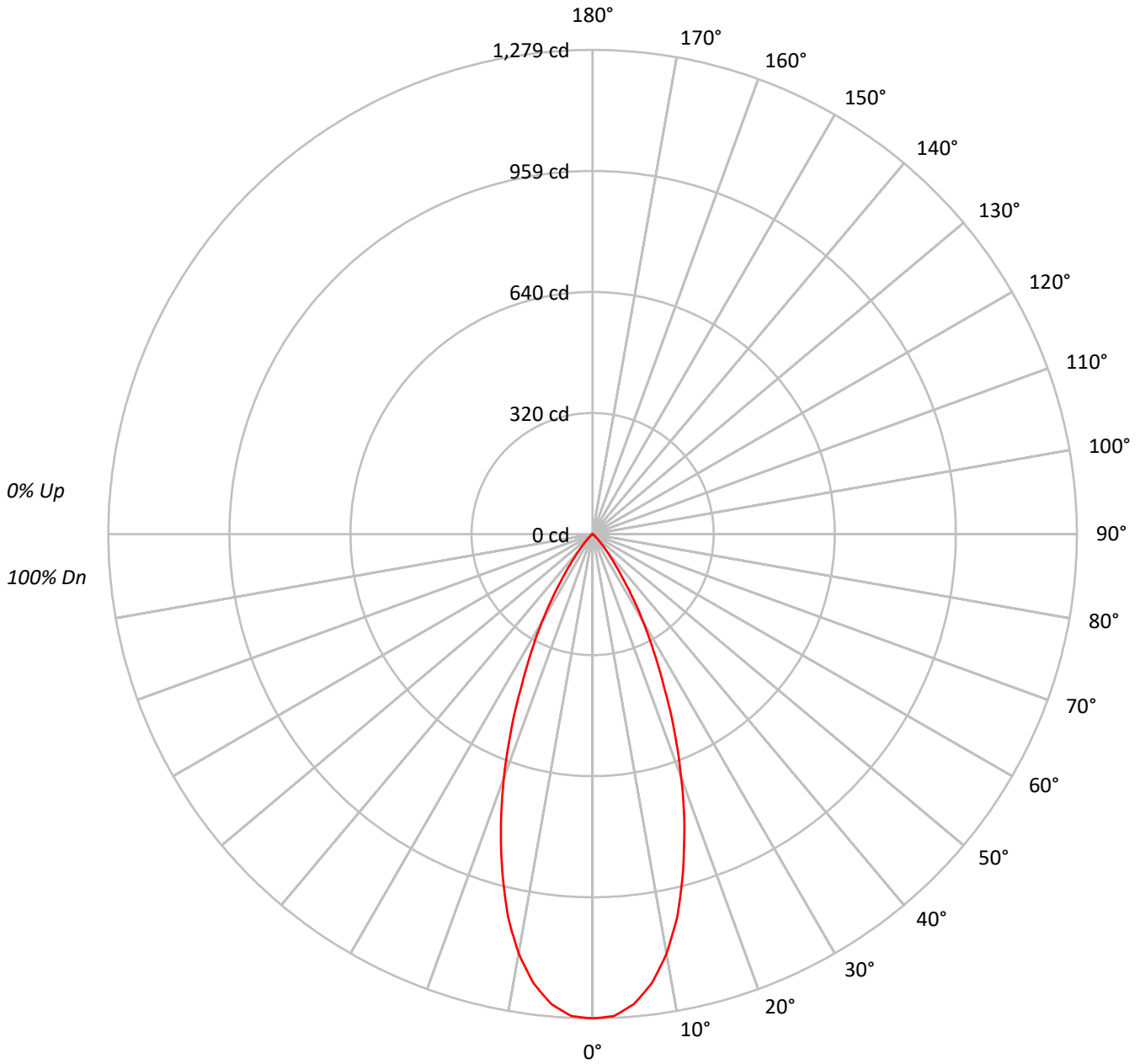
Lumens per Lamp: N/A  
Luminaire Lumens: 683.1 lumens  
Efficiency: N/A  
Efficacy: 86.5 lumens/watt  
Spacing Criteria (0/90/45): 0.67 / 0.67 / 0.67  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	97	95																			
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90																			
3	105	99	94	91	103	98	94	90	95	92	89	93	90	87	90	88	86	85																			
4	100	93	89	85	98	92	88	84	90	86	83	88	85	82	87	84	82	80																			
5	96	89	83	80	94	88	83	79	86	82	79	84	81	78	83	80	77	76																			
6	92	84	79	75	91	83	78	75	82	78	74	81	77	74	79	76	73	72																			
7	88	80	75	71	87	79	74	71	78	74	70	77	73	70	76	72	70	69																			
8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	65																			
9	81	73	68	64	80	72	67	64	71	67	64	71	67	64	70	66	63	62																			
10	78	70	65	61	77	69	64	61	68	64	61	68	64	61	67	63	61	59																			

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

	0°
0°	631180
5°	617495
10°	563514
15°	470636
20°	359340
25°	243557
30°	151599
35°	75589
40°	35166
45°	12978
50°	5373
55°	3011
60°	2270
65°	1401
70°	1731
75°	2288
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12978 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.1	16.9
10°-20°	253.3	37.1
20°-30°	206.8	30.3
30°-40°	84.8	12.4
40°-50°	17.6	2.6
50°-60°	3.3	0.5
60°-70°	1.3	0.2
70°-80°	0.8	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°	575.2	84.2
0°-40°	660.0	96.6
0°-60°	681.0	99.7
0°-90°	683.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	683.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1279	
5°	1247	115
15°	921	253
25°	447	207
35°	126	85
45°	19	18
55°	4	3
65°	1	1
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1279.3
2.5°	1274.7
5°	1246.8
7.5°	1196.8
10°	1124.8
12.5°	1034.1
15°	921.4
17.5°	805.2
20°	684.4
22.5°	564.7
25°	447.4
27.5°	349.7
30°	266.1
32.5°	189.4
35°	125.5
37.5°	81.3
40°	54.6
42.5°	33.7
45°	18.6
47.5°	10.5
50°	7.0
52.5°	4.6
55°	3.5
57.5°	2.3
60°	2.3
62.5°	1.2
65°	1.2
67.5°	1.2
70°	1.2
72.5°	1.2
75°	1.2
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

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— 0°-180°

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(END OF REPORT)