

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: P886012

Luminaire Tested: ML104LSFLD2W1E-TIR1D40FL-TL1RDMB-200LM-3500K

Issue Date: 6/19/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886012  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-126)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/19/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML104LSFLD2W1E-TIR1D40FL-TL1RDMB-200LM-3500K  
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE BLACK TRIM  
Light Source: (1) D2W LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

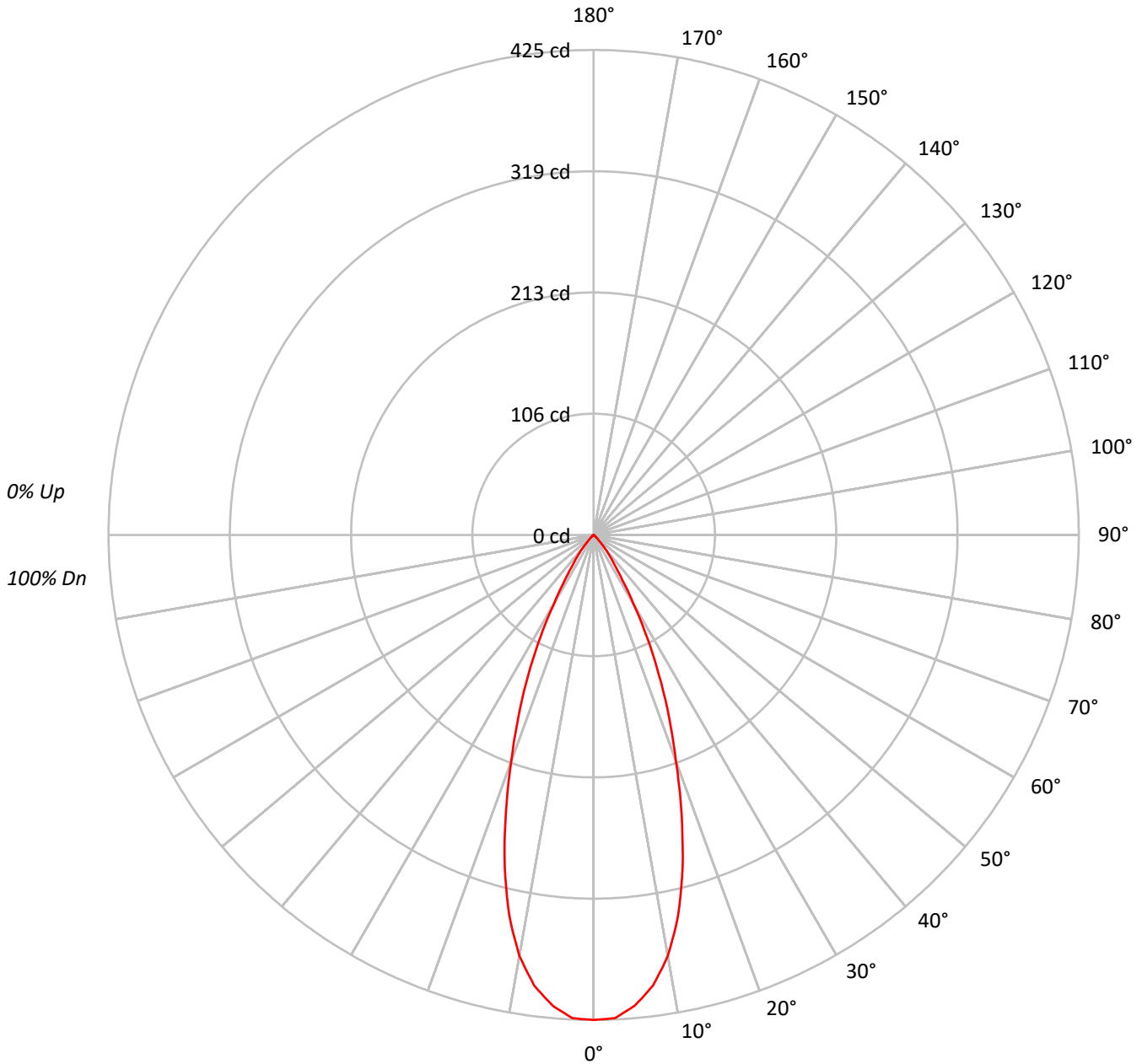
Lumens per Lamp: N/A  
Luminaire Lumens: 208.7 lumens  
Efficiency: N/A  
Efficacy: 65.2 lumens/watt  
Spacing Criteria (0/90/45): 0.65 / 0.65 / 0.65  
Luminous Opening: Circular (Dia: 0.08' x H: 0')  
CIE Type: Direct

Input Watts (W): 3.2  
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				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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	95
2	110	105	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90	90	90
3	105	100	95	92	103	98	94	91	96	93	90	93	91	88	91	89	87	86	86	86
4	101	94	90	86	99	93	89	86	91	88	85	89	86	84	88	85	83	81	81	81
5	97	90	85	81	95	89	84	81	87	83	80	86	82	79	84	81	79	77	77	77
6	93	85	80	77	92	85	80	76	83	79	76	82	78	75	81	77	75	74	74	74
7	89	81	76	73	88	81	76	73	80	75	72	79	75	72	77	74	72	70	70	70
8	86	78	73	69	85	77	72	69	76	72	69	75	71	69	74	71	68	67	67	67
9	83	74	69	66	82	74	69	66	73	69	66	72	68	66	72	68	65	64	64	64
10	80	71	66	63	79	71	66	63	70	66	63	70	66	63	69	65	63	61	61	61

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

	0°
0°	838953
5°	820167
10°	750694
15°	615604
20°	442932
25°	294842
30°	158152
35°	76132
40°	38644
45°	10885
50°	5219
55°	2064
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10885 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.3	18.3
10°-20°	82.0	39.3
20°-30°	61.6	29.5
30°-40°	21.9	10.5
40°-50°	4.4	2.1
50°-60°	0.6	0.3
60°-70°	0.0	0.0
70°-80°	0.0	0.0
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°	181.9	87.2
0°-40°	203.7	97.6
0°-60°	208.7	100.0
0°-90°	208.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	208.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	425	
5°	414	38
15°	301	82
25°	135	62
35°	32	22
45°	4	4
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	425.1
2.5°	423.9
5°	414.0
7.5°	398.4
10°	374.6
12.5°	341.8
15°	301.3
17.5°	255.8
20°	210.9
22.5°	172.0
25°	135.4
27.5°	101.0
30°	69.4
32.5°	46.6
35°	31.6
37.5°	22.8
40°	15.0
42.5°	8.3
45°	3.9
47.5°	2.8
50°	1.7
52.5°	1.1
55°	0.6
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
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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Scaled Data Report



(END OF REPORT)