

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: P886020

Luminaire Tested: ML104LSFLD2W1E-TIR1D40FL-TL1RDSL-200LM-3500K

Issue Date: 6/19/2024

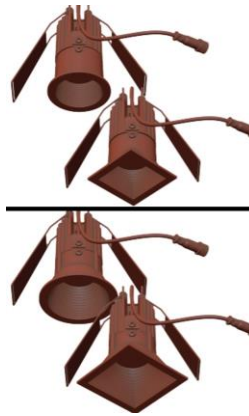
Test Information

Test Method: LM-79-2019
Report Number: P886020
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-125)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFLD2W1E-TIR1D40FL-TL1RD5L-200LM-3500K
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER TRIM
Light Source: (1) D2W LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 236.3 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Spacing Criteria (0/90/45): 0.65 / 0.65 / 0.66
Luminous Opening: Circular (Dia: 0.08' x H: 0')
CIE Type: Direct

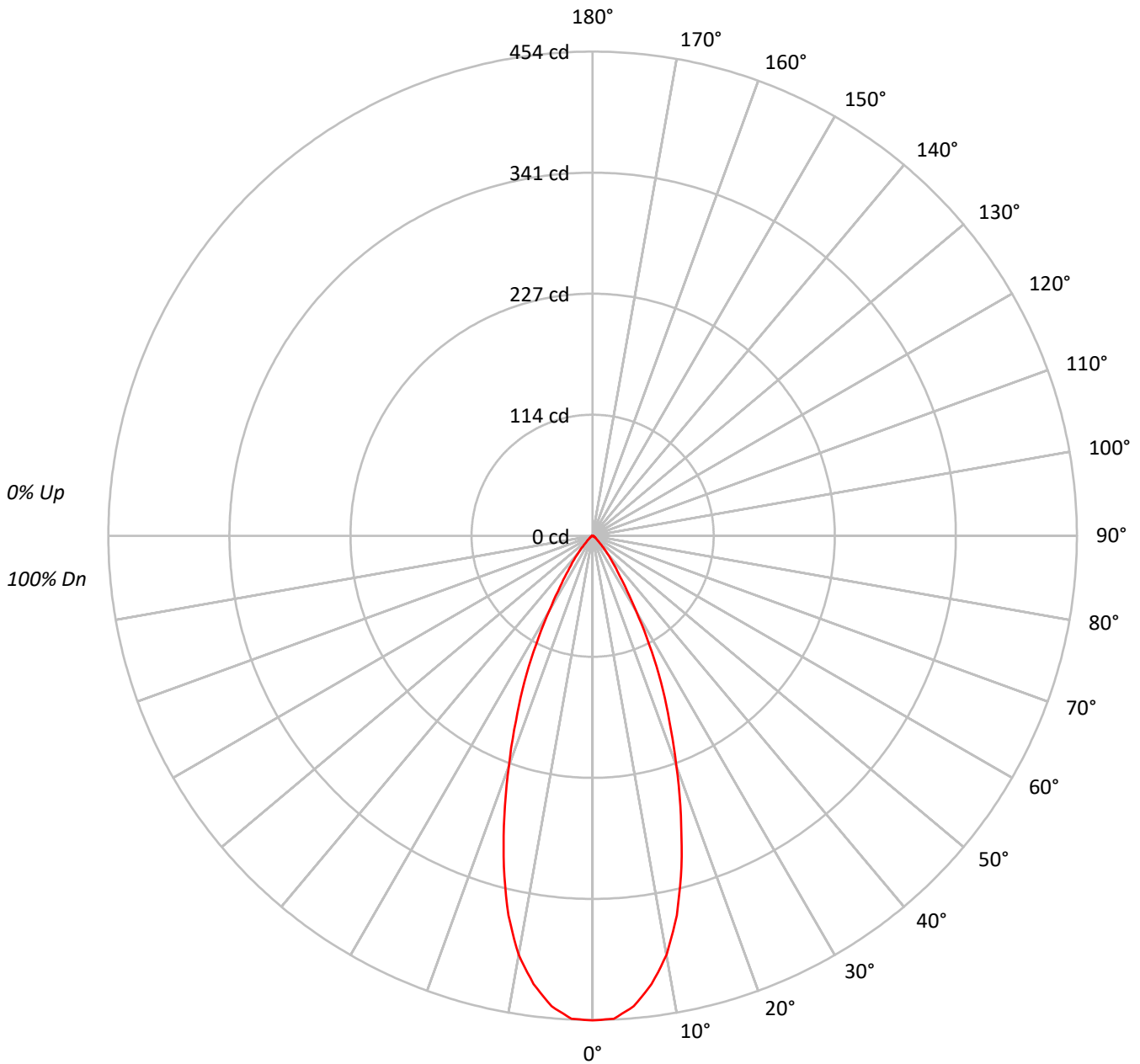
Input Watts (W): 3.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	112	109	107	105	105	104	102	102	100	99	98	97	96	95			
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89			
3	104	99	94	91	102	97	93	90	95	91	88	92	89	87	90	88	86	84			
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80			
5	96	88	83	79	94	87	82	79	86	81	78	84	80	78	83	79	77	76			
6	92	84	78	75	90	83	78	74	82	77	74	80	76	73	79	76	73	72			
7	88	80	74	71	87	79	74	70	78	73	70	77	73	70	76	72	69	68			
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	73	69	66	65			
9	81	73	67	64	80	72	67	64	71	67	64	70	66	63	70	66	63	62			
10	78	69	64	61	77	69	64	61	68	64	61	68	63	60	67	63	60	59			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	896777
5°	877222
10°	799591
15°	656672
20°	481786
25°	329465
30°	184359
35°	96129
40°	54359
45°	23165
50°	13509
55°	9634
60°	6710
65°	5137
70°	3462
75°	4575
80°	6819
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23165 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.8	17.3
10°-20°	87.9	37.2
20°-30°	68.5	29.0
30°-40°	27.1	11.5
40°-50°	7.7	3.2
50°-60°	2.5	1.1
60°-70°	1.1	0.5
70°-80°	0.6	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°	197.2	83.4
0°-40°	224.3	94.9
0°-60°	234.5	99.2
0°-90°	236.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	236.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	454	
5°	443	41
15°	321	88
25°	151	68
35°	40	27
45°	8	8
55°	3	3
65°	1	1
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	454.4
2.5°	453.3
5°	442.8
7.5°	423.9
10°	399.0
12.5°	364.6
15°	321.4
17.5°	274.9
20°	229.4
22.5°	187.9
25°	151.3
27.5°	114.7
30°	80.9
32.5°	56.5
35°	39.9
37.5°	29.9
40°	21.1
42.5°	13.3
45°	8.3
47.5°	6.1
50°	4.4
52.5°	3.3
55°	2.8
57.5°	2.2
60°	1.7
62.5°	1.1
65°	1.1
67.5°	1.1
70°	0.6
72.5°	0.6
75°	0.6
77.5°	0.6
80°	0.6
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)