

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: P886018

Luminaire Tested: ML104LSFLD2W1E-TIR1D40FL-TL1RDMWB-200LM-3500K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P886018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-127)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFLD2W1E-TIR1D40FL-TL1RDMWB-200LM-3500K
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) D2W LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 227.4 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 0.67 / 0.67 / 0.66
Luminous Opening: Circular (Dia: 0.08' x H: 0')
CIE Type: Direct

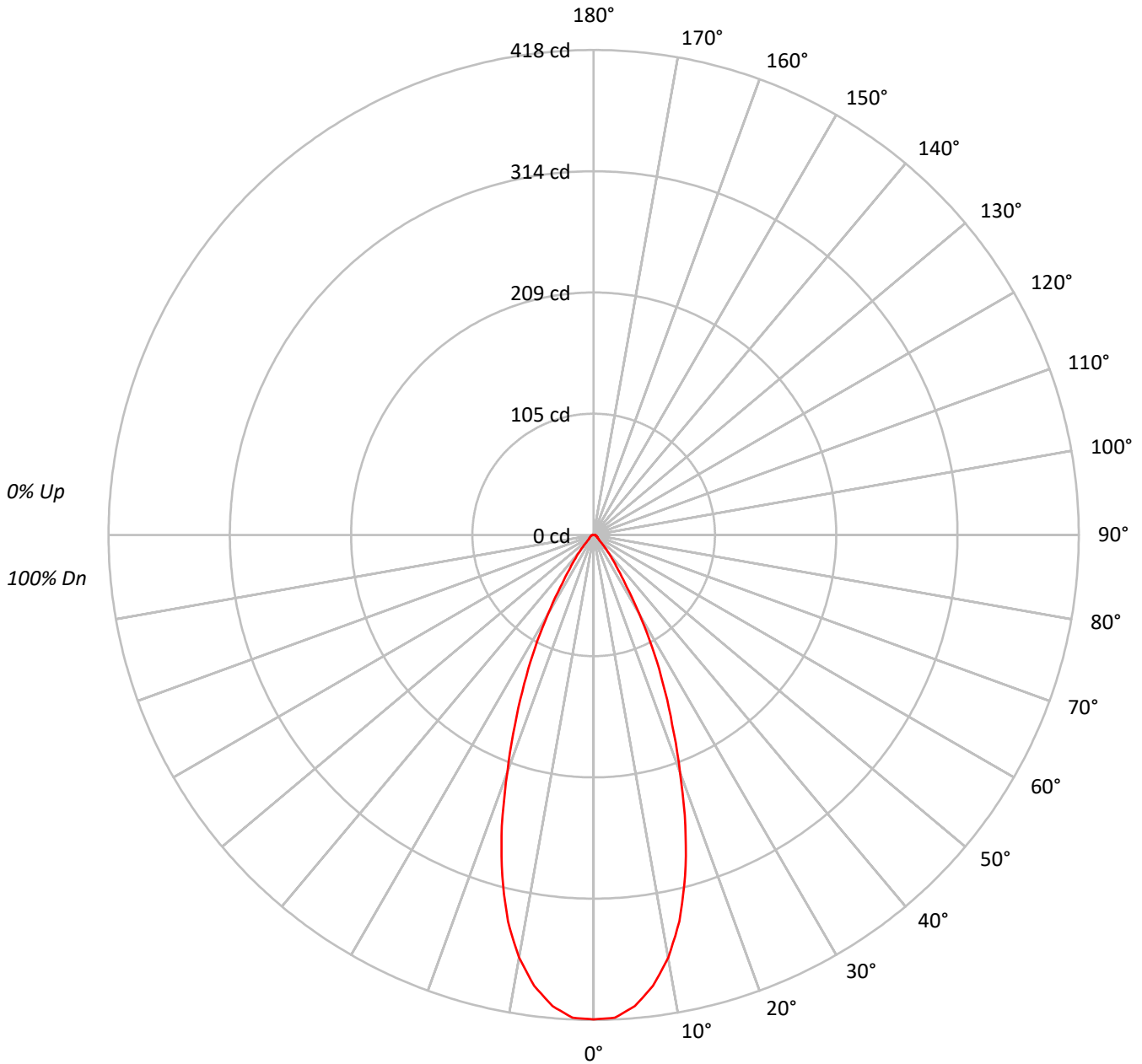
Input Watts (W): 3.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	100	100	100
1	114	111	109	106	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94	94	94
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88	88	88	88
3	104	98	93	89	102	96	92	88	94	90	87	91	88	86	89	87	84	83	83	83	83
4	99	92	87	83	97	91	86	82	89	85	82	87	83	81	85	82	80	78	78	78	78
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74	74	74	74
6	91	83	77	73	89	82	77	73	80	76	72	79	75	72	78	74	71	70	70	70	70
7	87	78	73	69	86	78	73	69	77	72	69	75	71	68	74	71	68	67	67	67	67
8	83	75	69	66	82	74	69	65	73	68	65	72	68	65	71	67	65	63	63	63	63
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	64	62	60	60	60	60
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	66	62	59	58	58	58	58

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	824151
5°	807488
10°	741275
15°	622142
20°	456583
25°	307907
30°	178206
35°	88179
40°	49980
45°	23165
50°	16887
55°	15139
60°	13025
65°	13075
70°	12695
75°	12963
80°	12502
85°	13586

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°	37.7	16.6
10°-20°	83.0	36.5
20°-30°	64.7	28.5
30°-40°	25.4	11.2
40°-50°	7.5	3.3
50°-60°	3.8	1.7
60°-70°	2.9	1.3
70°-80°	1.9	0.8
80°-90°	0.5	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°	185.4	81.5
0°-40°	210.7	92.7
0°-60°	222.1	97.7
0°-90°	227.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	227.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	418	
5°	408	38
15°	304	83
25°	141	65
35°	37	25
45°	8	8
55°	4	4
65°	3	3
75°	2	2
85°	1	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	417.6
2.5°	416.5
5°	407.6
7.5°	392.1
10°	369.9
12.5°	341.1
15°	304.5
17.5°	262.9
20°	217.4
22.5°	176.9
25°	141.4
27.5°	109.2
30°	78.2
32.5°	53.2
35°	36.6
37.5°	27.2
40°	19.4
42.5°	12.8
45°	8.3
47.5°	6.1
50°	5.5
52.5°	4.4
55°	4.4
57.5°	3.9
60°	3.3
62.5°	3.3
65°	2.8
67.5°	2.8
70°	2.2
72.5°	2.2
75°	1.7
77.5°	1.7
80°	1.1
82.5°	0.6
85°	0.6
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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