

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: P885992

Luminaire Tested: ML104LSFLD2W1E-TIR1D25NFL-TL1RDMW-200LM-2700K

Issue Date: 7/18/2024

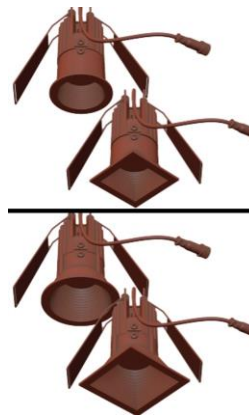
Test Information

Test Method: LM-79-2019
Report Number: P885992
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-118)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/18/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFLD2W1E-TIR1D25NFL-TL1RDMW-200LM-2700K
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE TRIM
Light Source: (1) D2W LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

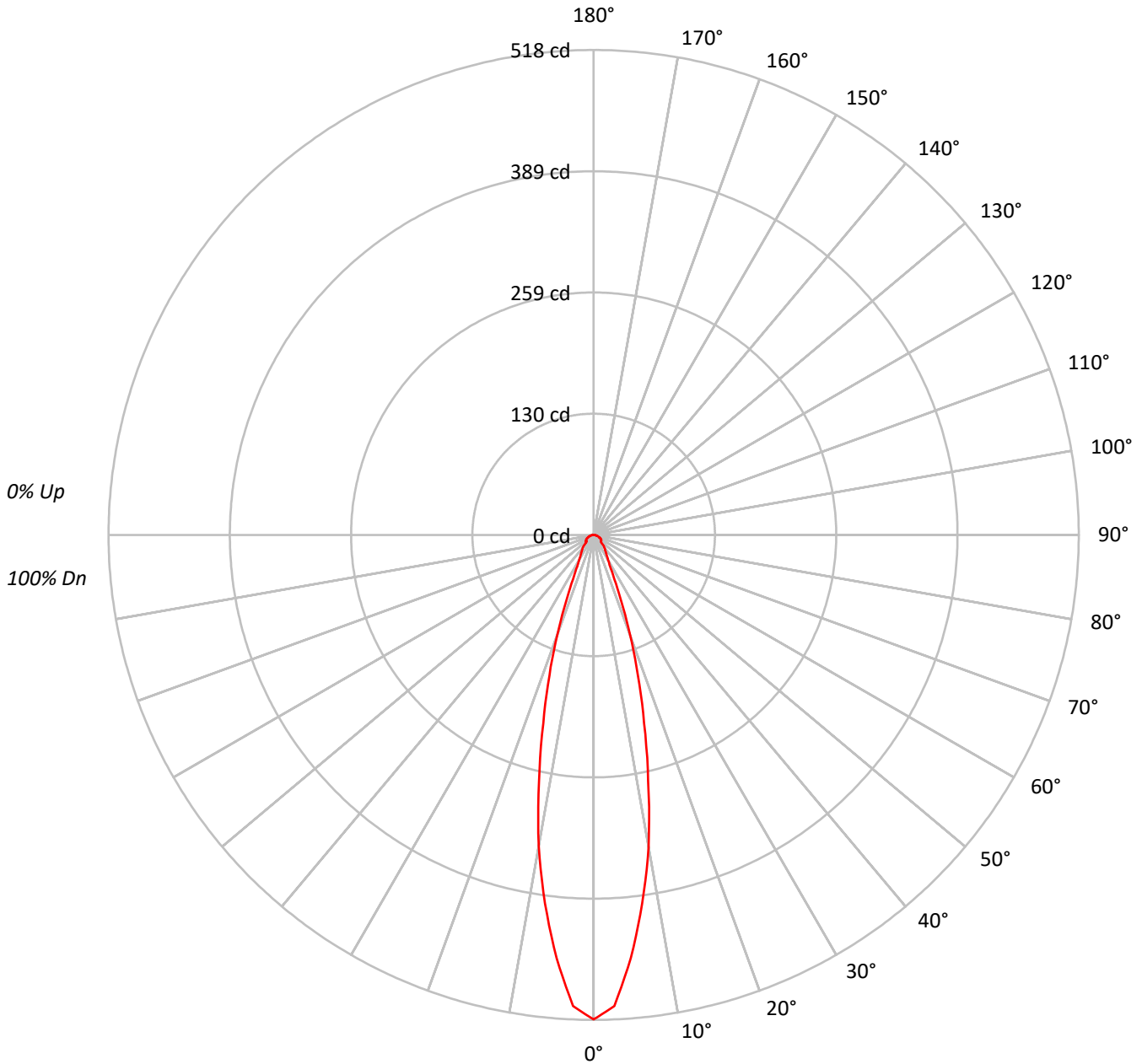
Lumens per Lamp: N/A
Luminaire Lumens: 169.4 lumens
Efficiency: N/A
Efficacy: 52.9 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.46
Luminous Opening: Circular (Dia: 0.08' x H: 0')
CIE Type: Direct

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									
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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92																			
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85																			
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	86	84	81	80																			
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71																			
6	89	80	74	70	87	79	74	70	78	73	70	77	72	69	75	72	69	67																			
7	85	77	71	67	84	76	70	67	75	70	66	73	69	66	72	68	66	64																			
8	82	73	68	64	81	73	67	64	72	67	63	71	66	63	70	66	63	62																			
9	79	70	65	61	78	70	64	61	69	64	61	68	64	61	67	63	60	59																			
10	76	67	62	59	75	67	62	59	66	62	58	66	61	58	65	61	58	57																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1021308
5°	898816
10°	676947
15°	424977
20°	237743
25°	113451
30°	69505
35°	54690
40°	47146
45°	32376
50°	32238
55°	34408
60°	35129
65°	33623
70°	31736
75°	29738
80°	25003
85°	24908

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 60°
 Luminance: 35129 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.7	23.4
10°-20°	57.7	34.0
20°-30°	26.5	15.7
30°-40°	14.5	8.6
40°-50°	10.0	5.9
50°-60°	8.8	5.2
60°-70°	7.0	4.1
70°-80°	4.1	2.4
80°-90°	1.2	0.7
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°	123.9	73.1
0°-40°	138.3	81.7
0°-60°	157.1	92.7
0°-90°	169.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	169.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	518	
5°	454	40
15°	208	58
25°	52	27
35°	23	14
45°	12	10
55°	10	9
65°	7	7
75°	4	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	517.5
2.5°	503.7
5°	453.7
7.5°	397.2
10°	337.8
12.5°	269.0
15°	208.0
17.5°	157.0
20°	113.2
22.5°	77.1
25°	52.1
27.5°	37.7
30°	30.5
32.5°	26.1
35°	22.7
37.5°	20.0
40°	18.3
42.5°	15.5
45°	11.6
47.5°	10.5
50°	10.5
52.5°	10.0
55°	10.0
57.5°	9.4
60°	8.9
62.5°	7.8
65°	7.2
67.5°	6.1
70°	5.5
72.5°	4.4
75°	3.9
77.5°	3.3
80°	2.2
82.5°	1.7
85°	1.1
87.5°	0.6
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)