

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: P885997

Luminaire Tested: ML104LSFLD2W1E-TIR1D25NFL-TL1RDSL-200LM-3000K

Issue Date: 7/18/2024

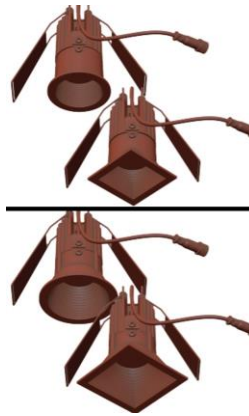
Test Information

Test Method: LM-79-2019
Report Number: P885997
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-119)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/18/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFLD2W1E-TIR1D25NFL-TL1RDSL-200LM-3000K
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER TRIM
Light Source: (1) D2W LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 189.7 lumens
Efficiency: N/A
Efficacy: 59.3 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.47
Luminous Opening: Circular (Dia: 0.08' x H: 0')
CIE Type: Direct

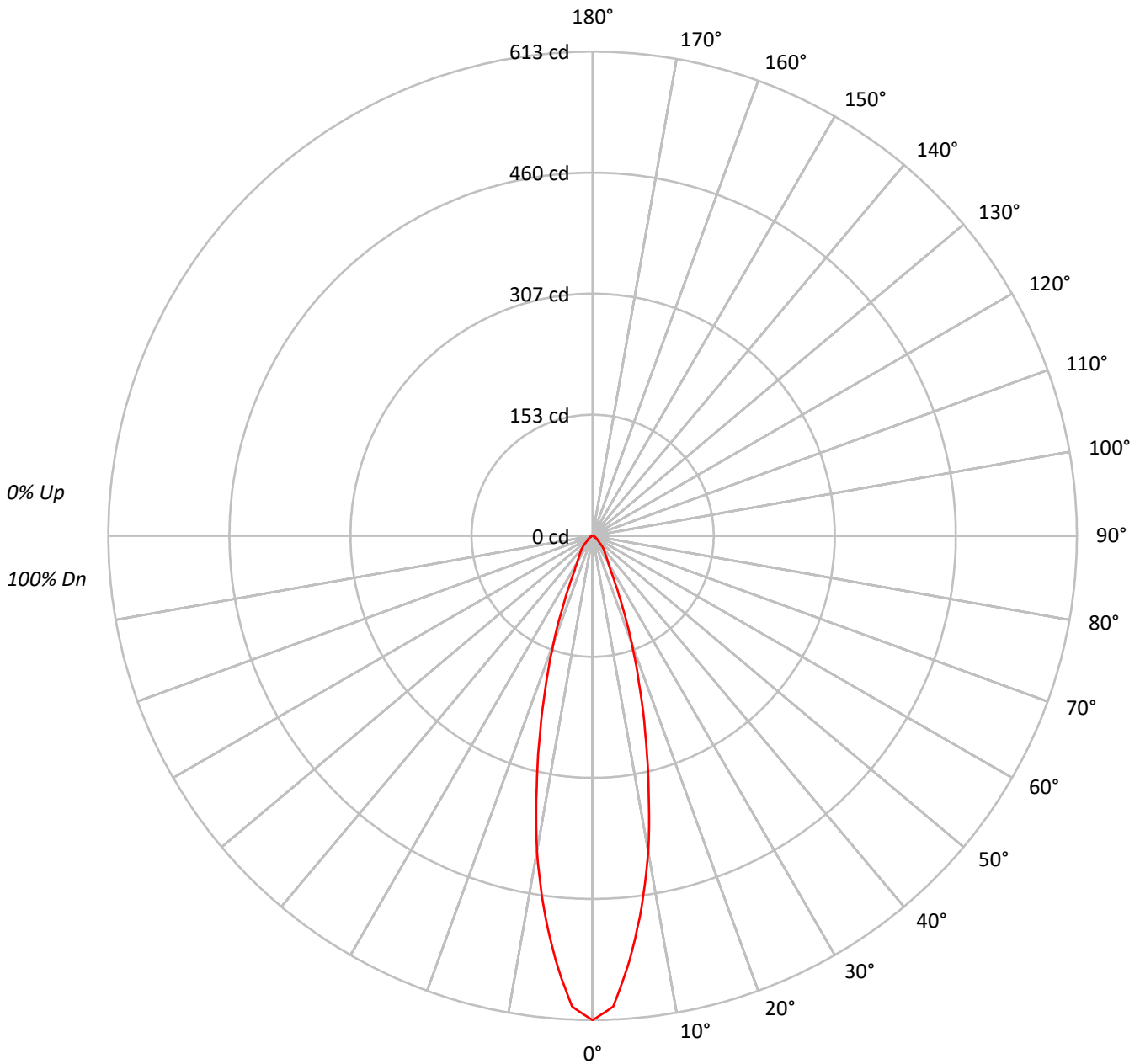
Input Watts (W): 3.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	103	97	93	90	95	91	89	92	90	87	90	88	86	84																			
4	100	93	89	85	98	92	88	84	90	86	83	88	85	82	87	84	82	80																			
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76																			
6	92	85	79	76	91	84	79	76	82	78	75	81	77	75	80	77	74	73																			
7	89	81	76	72	88	80	75	72	79	75	72	78	74	71	77	73	71	70																			
8	86	78	72	69	85	77	72	69	76	72	69	75	71	68	74	71	68	67																			
9	83	75	69	66	82	74	69	66	73	69	66	72	68	66	72	68	65	64																			
10	80	72	67	64	79	71	67	63	71	66	63	70	66	63	69	66	63	62																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1210176
5°	1067604
10°	812817
15°	523662
20°	302219
25°	151558
30°	89559
35°	67459
40°	53587
45°	34888
50°	25483
55°	20301
60°	16578
65°	11208
70°	6924
75°	4575
80°	6819
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 34888 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.3	24.9
10°-20°	70.8	37.3
20°-30°	34.7	18.3
30°-40°	17.9	9.4
40°-50°	10.3	5.4
50°-60°	5.4	2.8
60°-70°	2.4	1.3
70°-80°	0.9	0.5
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°	152.9	80.6
0°-40°	170.7	90.0
0°-60°	186.3	98.2
0°-90°	189.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	189.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	613	
5°	539	47
15°	256	71
25°	70	35
35°	28	18
45°	12	10
55°	6	5
65°	2	2
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	613.2
2.5°	596.6
5°	538.9
7.5°	474.6
10°	405.6
12.5°	327.1
15°	256.3
17.5°	195.1
20°	143.9
22.5°	101.1
25°	69.6
27.5°	50.0
30°	39.3
32.5°	32.7
35°	28.0
37.5°	24.4
40°	20.8
42.5°	17.2
45°	12.5
47.5°	9.5
50°	8.3
52.5°	7.1
55°	5.9
57.5°	4.8
60°	4.2
62.5°	3.0
65°	2.4
67.5°	1.8
70°	1.2
72.5°	1.2
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)