

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: P885996

Luminaire Tested: ML104LSFLD2W1E-TIR1D25NFL-TL1RDSL-200LM-2700K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P885996
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-2700K
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER TRIM
Light Source: (1) D2W LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 177.0 lumens
Efficiency: N/A
Efficacy: 55.3 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

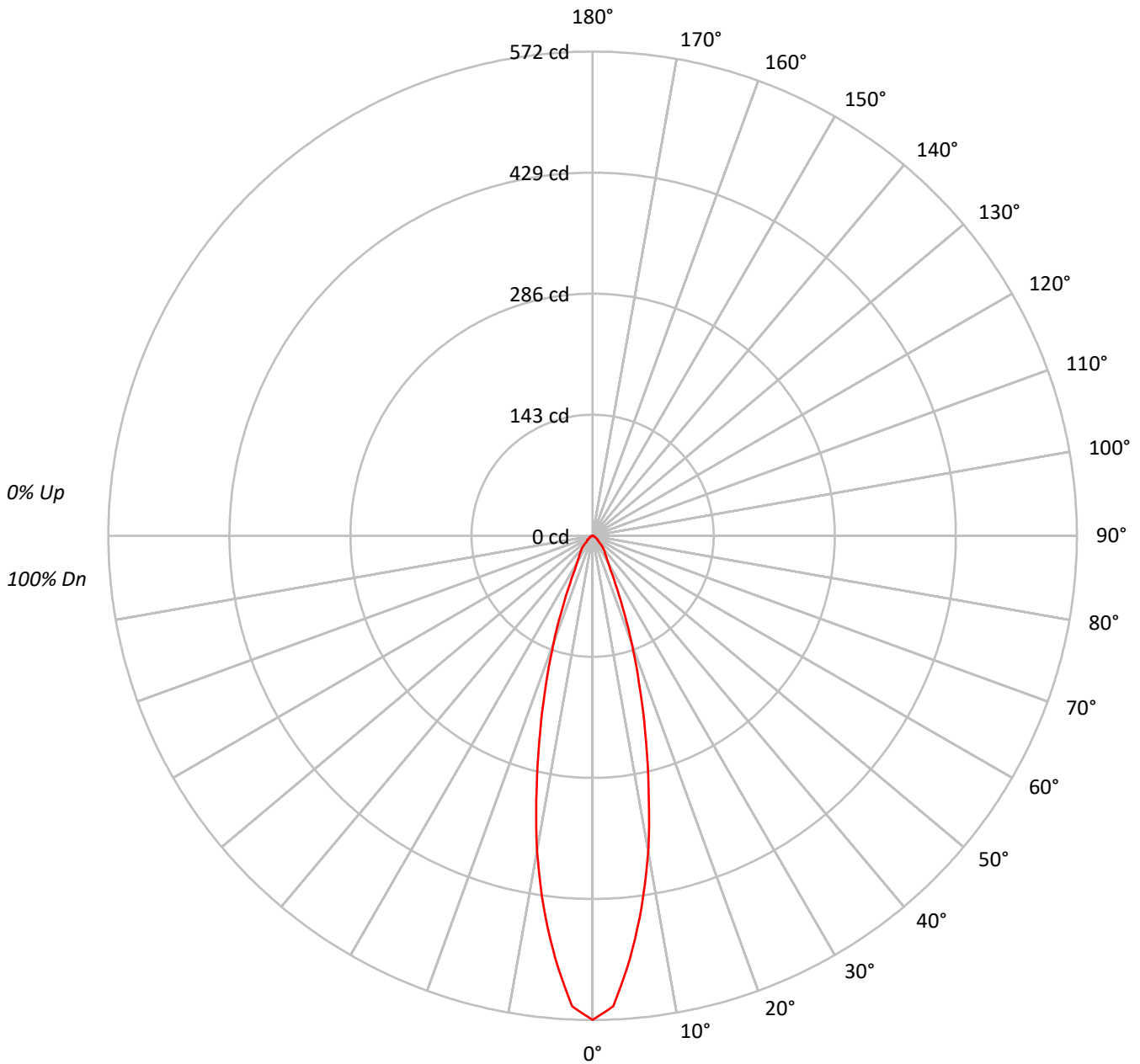
Input Watts (W): 3.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	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	81	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°	1128669
5°	995691
10°	758108
15°	488520
20°	281847
25°	141324
30°	83406
35°	62881
40°	49980
45°	32376
50°	23948
55°	18924
60°	15394
65°	10274
70°	6347
75°	4575
80°	6819
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 32376 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.1	24.9
10°-20°	66.1	37.3
20°-30°	32.4	18.3
30°-40°	16.6	9.4
40°-50°	9.6	5.4
50°-60°	5.0	2.8
60°-70°	2.3	1.3
70°-80°	0.8	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°	142.6	80.6
0°-40°	159.2	90.0
0°-60°	173.8	98.2
0°-90°	177.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	177.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	572	
5°	503	44
15°	239	66
25°	65	32
35°	26	17
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°	571.9
2.5°	556.4
5°	502.6
7.5°	442.7
10°	378.3
12.5°	305.1
15°	239.1
17.5°	182.0
20°	134.2
22.5°	94.3
25°	64.9
27.5°	46.6
30°	36.6
32.5°	30.5
35°	26.1
37.5°	22.7
40°	19.4
42.5°	16.1
45°	11.6
47.5°	8.9
50°	7.8
52.5°	6.7
55°	5.5
57.5°	4.4
60°	3.9
62.5°	2.8
65°	2.2
67.5°	1.7
70°	1.1
72.5°	1.1
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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