

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: P885999

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

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P885999
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-122)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/18/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFLD2W1E-TIR1D25NFL-TL1RDSL B-200LM-3000K
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) D2W LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 194.2 lumens
Efficiency: N/A
Efficacy: 60.7 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.49
Luminous Opening: Circular (Dia: 0.08' x H: 0')
CIE Type: Direct

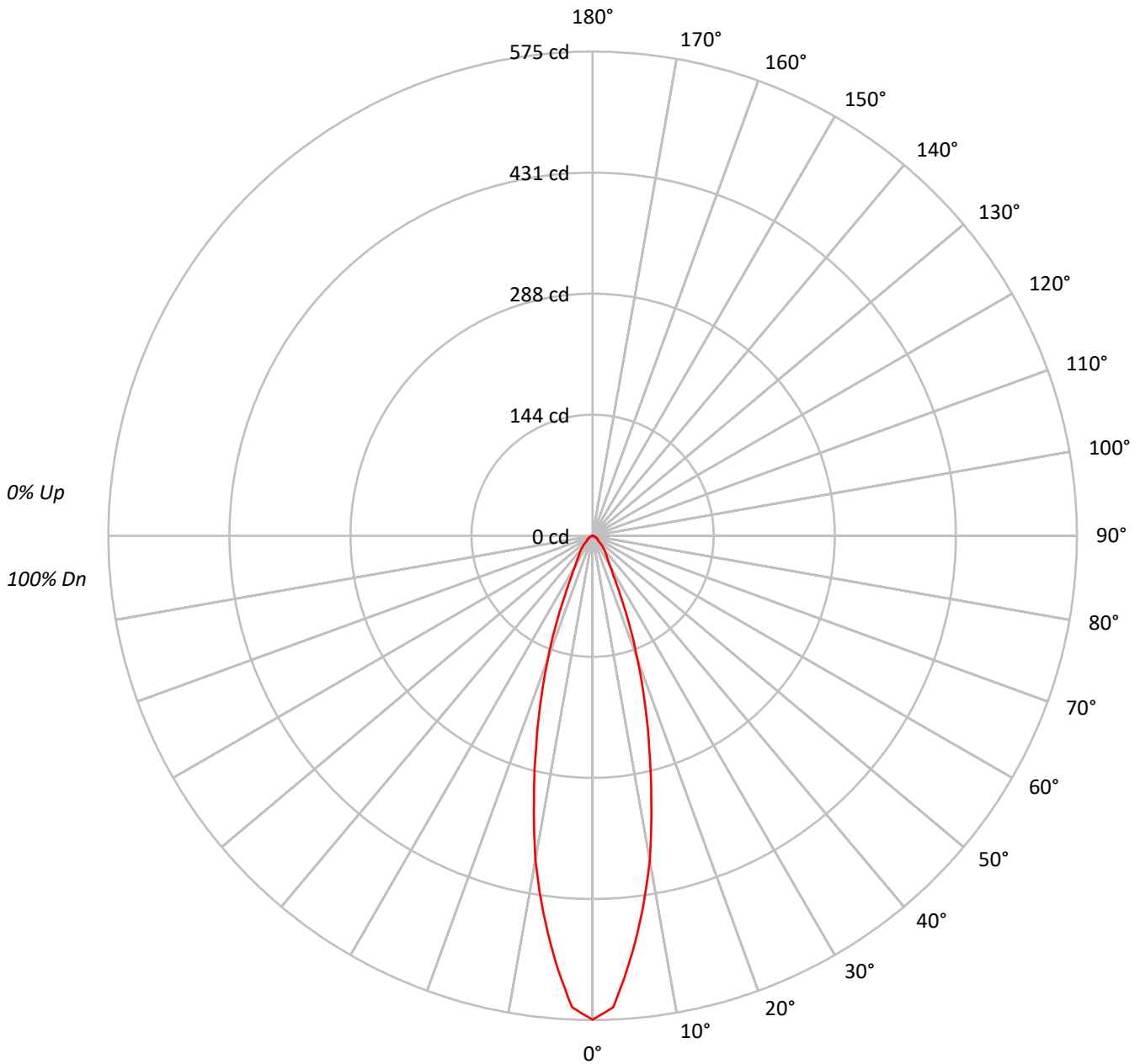
Input Watts (W): 3.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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					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	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	111	109	107	105	105	103	102	101	100	99	98	97	96	94								
2	109	104	101	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89								
3	104	98	94	90	102	97	93	89	94	91	88	92	89	86	90	87	85	84								
4	100	93	88	84	98	92	87	83	89	85	82	88	84	81	86	83	80	79								
5	95	88	83	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75								
6	92	84	78	74	90	83	78	74	81	77	74	80	76	73	79	75	73	71								
7	88	80	74	71	87	79	74	71	78	73	70	77	73	70	76	72	69	68								
8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	67	65								
9	82	73	68	65	81	73	68	64	72	67	64	71	67	64	70	67	64	63								
10	79	70	65	62	78	70	65	62	69	65	62	68	64	62	68	64	61	60								

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1134195
5°	1004210
10°	783358
15°	529996
20°	324901
25°	167019
30°	93661
35°	68905
40°	55132
45°	39911
50°	27326
55°	24429
60°	21314
65°	16811
70°	10386
75°	4575
80°	6819
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 39911 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.8	23.1
10°-20°	71.5	36.8
20°-30°	37.9	19.5
30°-40°	18.3	9.4
40°-50°	10.8	5.6
50°-60°	6.4	3.3
60°-70°	3.4	1.8
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°	154.2	79.4
0°-40°	172.6	88.9
0°-60°	189.7	97.7
0°-90°	194.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	194.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	575	
5°	507	45
15°	259	72
25°	77	38
35°	29	18
45°	14	11
55°	7	6
65°	4	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	574.7
2.5°	560.4
5°	506.9
7.5°	450.4
10°	390.9
12.5°	321.9
15°	259.4
17.5°	203.5
20°	154.7
22.5°	112.4
25°	76.7
27.5°	54.1
30°	41.1
32.5°	33.9
35°	28.6
37.5°	24.4
40°	21.4
42.5°	17.8
45°	14.3
47.5°	9.5
50°	8.9
52.5°	7.7
55°	7.1
57.5°	6.5
60°	5.4
62.5°	4.2
65°	3.6
67.5°	2.4
70°	1.8
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)