

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: P885812

Luminaire Tested: ML104LSFL9FS1E-TIR1D25NFL-TL1RDMB-400LM-5000K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P885812
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-120)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/18/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL9FS1E-TIR1D25NFL-TL1RDMB-400LM-5000K
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

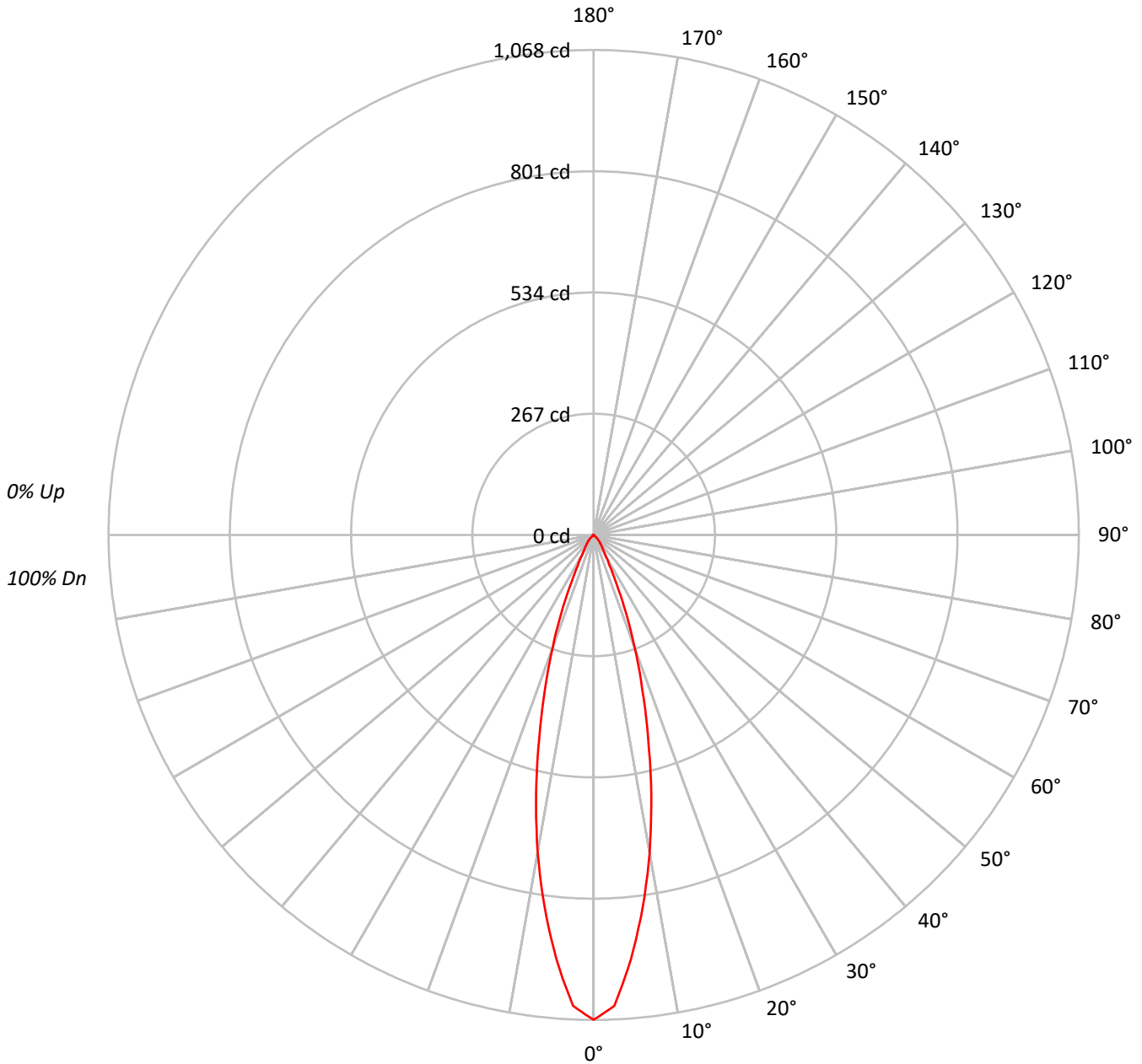
Lumens per Lamp: N/A
Luminaire Lumens: 298.9 lumens
Efficiency: N/A
Efficacy: 49.8 lumens/watt
Spacing Criteria (0/90/45): 0.45 / 0.45 / 0.48
Luminous Opening: Circular (Dia: 0.08' x H: 0')
CIE Type: Direct

Input Watts (W): 6
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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CATALOG NUMBER: ML104LSFL9FS1E-TIR1D25NFL-TL1RDDB-400LM-5000K

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	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	115	112	110	108	112	110	108	107	106	105	104	103	101	100	99	98	98	96																											
2	110	106	103	101	108	105	102	99	102	99	97	99	97	95	96	95	93	92																											
3	106	101	97	94	105	100	96	93	97	95	92	95	93	91	93	91	89	88																											
4	103	97	92	89	101	96	92	89	94	90	88	92	89	87	90	88	86	84																											
5	99	93	88	85	98	92	87	84	90	86	84	88	85	83	87	84	82	81																											
6	96	89	84	81	94	88	84	81	87	83	80	85	82	80	84	81	79	78																											
7	92	85	81	77	91	85	80	77	84	80	77	83	79	77	82	78	76	75																											
8	89	82	78	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72																											
9	87	79	75	72	86	79	75	72	78	74	71	77	74	71	77	73	71	70																											
10	84	77	72	69	83	76	72	69	76	72	69	75	71	69	74	71	69	68																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2107151
5°	1860036
10°	1421829
15°	944145
20°	552983
25°	258259
30°	118500
35°	76132
40°	52298
45°	28468
50°	7062
55°	3785
60°	4342
65°	0
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 28468 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.4	27.6
10°-20°	127.4	42.6
20°-30°	59.3	19.8
30°-40°	20.4	6.8
40°-50°	7.7	2.6
50°-60°	1.4	0.5
60°-70°	0.4	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	269.1	90.0
0°-40°	289.5	96.8
0°-60°	298.5	99.9
0°-90°	298.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	298.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1068	
5°	939	82
15°	462	127
25°	119	59
35°	32	20
45°	10	8
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1067.7
2.5°	1038.3
5°	938.9
7.5°	827.0
10°	709.5
12.5°	585.3
15°	462.1
17.5°	355.9
20°	263.3
22.5°	185.3
25°	118.6
27.5°	75.7
30°	52.0
32.5°	39.5
35°	31.6
37.5°	24.9
40°	20.3
42.5°	15.8
45°	10.2
47.5°	3.4
50°	2.3
52.5°	2.3
55°	1.1
57.5°	1.1
60°	1.1
62.5°	1.1
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
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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