

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: P885611

Luminaire Tested: ML104LSFL95FS1E-TIR1D25NFL-TL1RDMB-170LM-4000K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P885611
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: ML104LSFL95FS1E-TIR1D25NFL-TL1RDMB-170LM-4000K
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 125.9 lumens
Efficiency: N/A
Efficacy: 21.0 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

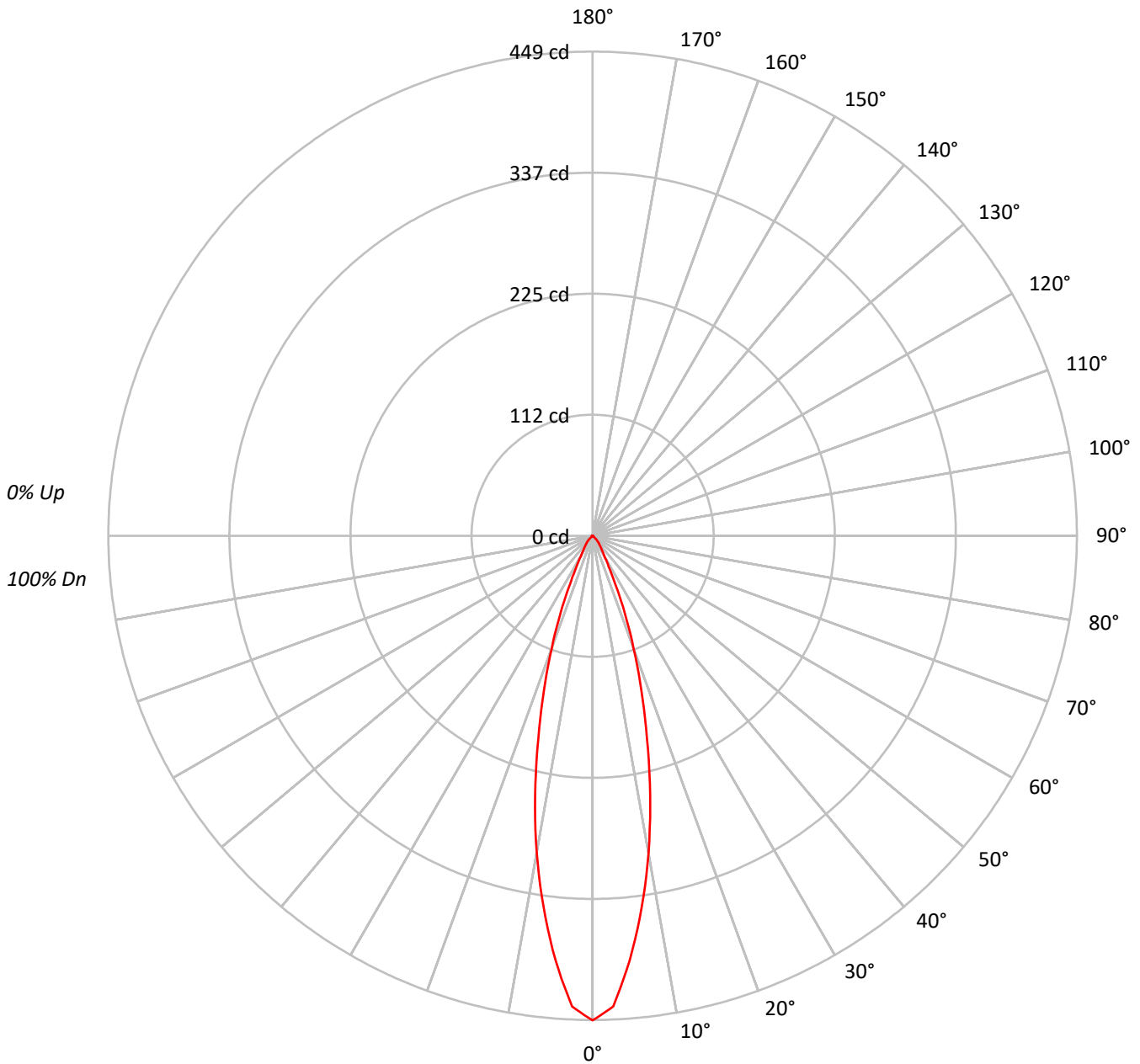
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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CATALOG NUMBER: ML104LSFL95FS1E-TIR1D25NFL-TL1RDDB-170LM-4000K

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									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	94	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	82	79	76	81	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	76	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°	886910
5°	782923
10°	598391
15°	397395
20°	232702
25°	108660
30°	49907
35°	32043
40°	22156
45°	12001
50°	3070
55°	1720
60°	1974
65°	0
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12001 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.7	27.6
10°-20°	53.6	42.6
20°-30°	24.9	19.8
30°-40°	8.6	6.8
40°-50°	3.2	2.6
50°-60°	0.6	0.5
60°-70°	0.2	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°	113.3	90.0
0°-40°	121.8	96.8
0°-60°	125.7	99.9
0°-90°	125.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	125.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	449	
5°	395	35
15°	194	54
25°	50	25
35°	13	9
45°	4	3
55°	0	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CATALOG NUMBER: ML104LSFL95FS1E-TIR1D25NFL-TL1RDMB-170LM-4000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	449.4
2.5°	437.0
5°	395.2
7.5°	348.1
10°	298.6
12.5°	246.3
15°	194.5
17.5°	149.8
20°	110.8
22.5°	78.0
25°	49.9
27.5°	31.9
30°	21.9
32.5°	16.6
35°	13.3
37.5°	10.5
40°	8.6
42.5°	6.7
45°	4.3
47.5°	1.4
50°	1.0
52.5°	1.0
55°	0.5
57.5°	0.5
60°	0.5
62.5°	0.5
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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(END OF REPORT)