

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: P885932

Luminaire Tested: ML104LSFL9FS1E-TIR1D55WFL-TL1RDMB-400LM-5000K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885932
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-132)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL9FS1E-TIR1D55WFL-TL1RDMB-400LM-5000K
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE BLACK TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 470.2 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.76
Luminous Opening: Circular (Dia: 0.08' x H: 0')
CIE Type: Direct

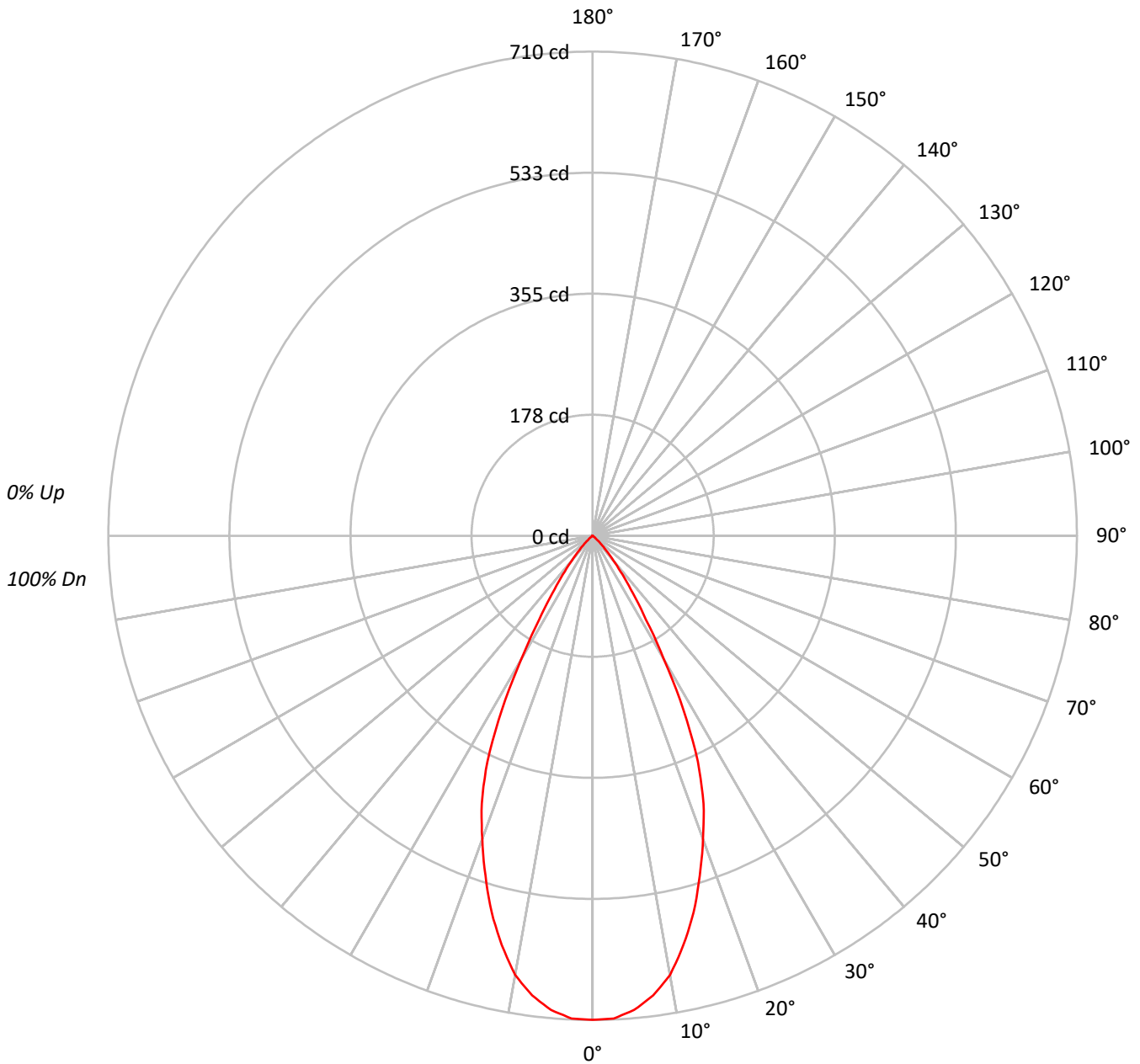
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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CATALOG NUMBER: ML104LSFL9FS1E-TIR1D55WFL-TL1RD55WFL-400LM-5000K

Luminous Intensity Polar Plot





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CATALOG NUMBER: ML104LSFL9FS1E-TIR1D55WFL-TL1RDDB-400LM-5000K

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	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	94			
2	109	104	101	98	107	103	99	97	100	97	94	97	94	92	94	92	91	89			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	86	90	87	85	84			
4	99	92	87	84	98	91	87	83	89	85	82	87	84	81	85	83	80	79			
5	95	87	82	78	93	86	81	78	85	80	77	83	79	76	82	78	76	74			
6	91	83	77	73	89	82	77	73	80	76	72	79	75	72	78	74	71	70			
7	87	78	73	69	85	78	72	69	76	72	68	75	71	68	74	70	68	66			
8	83	74	69	65	82	74	68	65	73	68	65	72	67	64	71	67	64	63			
9	79	71	65	62	78	70	65	61	69	65	61	68	64	61	68	64	61	60			
10	76	67	62	58	75	67	62	58	66	61	58	65	61	58	65	61	58	57			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1400820
5°	1382992
10°	1310407
15°	1168688
20°	993814
25°	795464
30°	476963
35°	247430
40°	120570
45°	50796
50°	15965
55°	4473
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 50796 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.2	13.9
10°-20°	158.5	33.7
20°-30°	160.7	34.2
30°-40°	68.4	14.6
40°-50°	15.9	3.4
50°-60°	1.4	0.3
60°-70°	0.0	0.0
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°	384.4	81.8
0°-40°	452.8	96.3
0°-60°	470.2	100.0
0°-90°	470.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	470.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	710	
5°	698	65
15°	572	158
25°	365	161
35°	103	68
45°	18	16
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	709.8
2.5°	708.5
5°	698.1
7.5°	679.9
10°	653.9
12.5°	614.9
15°	572.0
17.5°	522.6
20°	473.2
22.5°	425.1
25°	365.3
27.5°	288.6
30°	209.3
32.5°	145.6
35°	102.7
37.5°	71.5
40°	46.8
42.5°	29.9
45°	18.2
47.5°	10.4
50°	5.2
52.5°	2.6
55°	1.3
57.5°	0.0
60°	0.0
62.5°	0.0
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)