

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: P885954

Luminaire Tested: ML104LSFL9FS1E-TIR1D55WFL-TL1RDSL B-400LM-3000K

Issue Date: 6/19/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P885954  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-134)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/19/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML104LSFL9FS1E-TIR1D55WFL-TL1RDSL B-400LM-3000K  
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER BAFFLED TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 404.5 lumens  
Efficiency: N/A  
Efficacy: 67.4 lumens/watt  
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.79  
Luminous Opening: Circular (Dia: 0.08' x H: 0')  
CIE Type: Direct

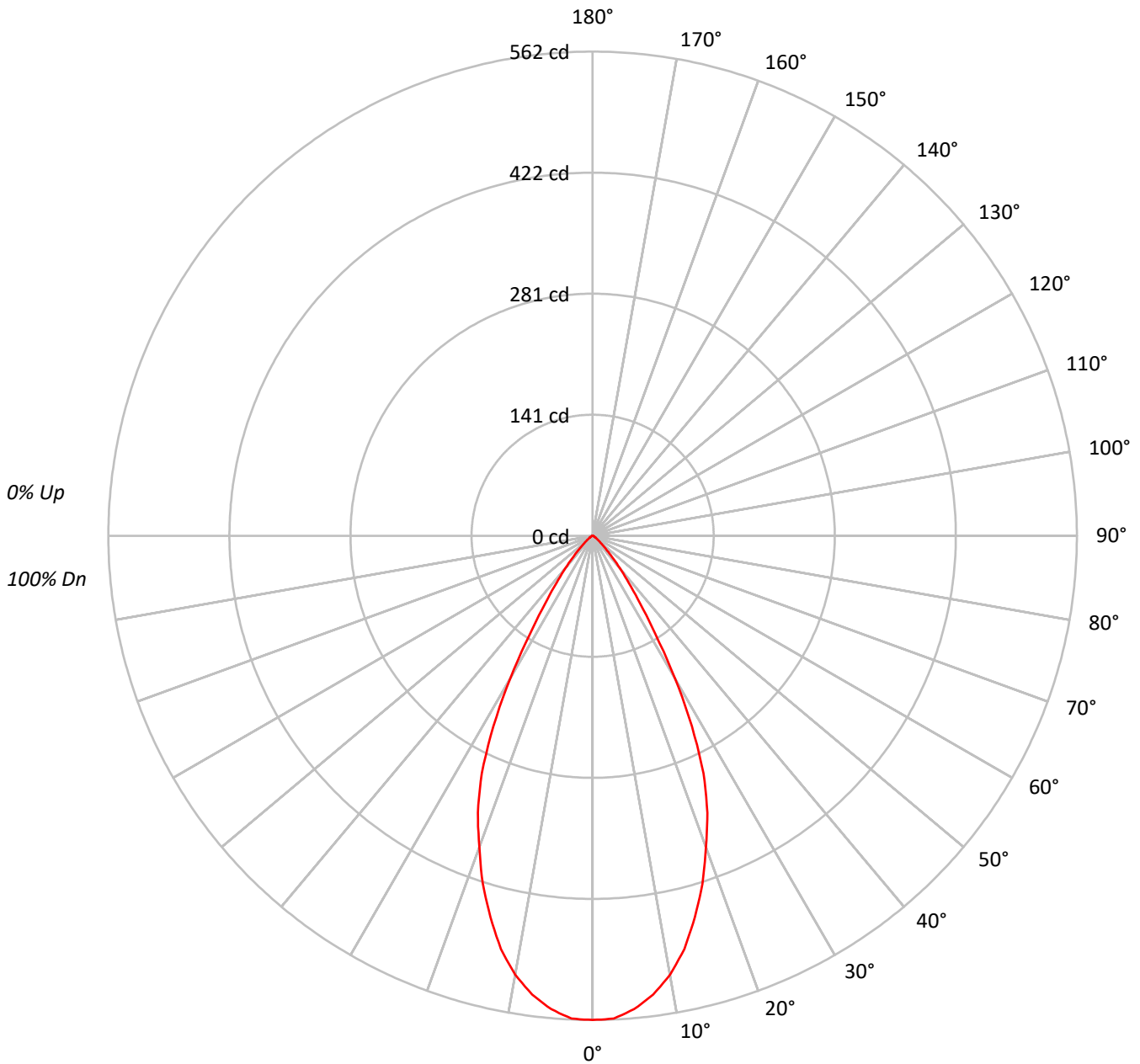
Input Watts (W): 6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	111	109	107	105	105	103	102		101	100	99		98	97	96	94
2	108	104	100	97	106	102	98	95	99	96	93		96	93	91		93	91	90	88
3	103	97	92	89	101	96	91	88	93	89	86		91	88	85		88	86	84	82
4	98	91	86	82	97	90	85	81	88	84	80		86	82	79		84	81	79	77
5	94	86	80	76	92	85	80	76	83	79	75		81	77	74		80	76	74	72
6	89	81	75	71	88	80	75	71	79	74	70		77	73	70		76	72	69	68
7	85	76	71	67	84	76	70	66	74	70	66		73	69	66		72	68	65	64
8	81	72	67	63	80	72	66	63	71	66	62		70	65	62		69	65	62	60
9	78	69	63	59	77	68	63	59	67	62	59		66	62	59		65	61	58	57
10	74	65	60	56	73	65	59	56	64	59	56		63	59	56		62	58	55	54

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	1109131
5°	1092764
10°	1036662
15°	935972
20°	807317
25°	662850
30°	435488
35°	230324
40°	125722
45°	60844
50°	31931
55°	17892
60°	12236
65°	9807
70°	5770
75°	7625
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 60844 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.6	12.7
10°-20°	127.3	31.5
20°-30°	135.0	33.4
30°-40°	64.1	15.9
40°-50°	18.8	4.6
50°-60°	5.2	1.3
60°-70°	1.8	0.4
70°-80°	0.7	0.2
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°	313.9	77.6
0°-40°	378.0	93.5
0°-60°	402.0	99.4
0°-90°	404.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	404.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	562	
5°	552	52
15°	458	127
25°	304	135
35°	96	64
45°	22	19
55°	5	5
65°	2	2
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	562.0
2.5°	561.0
5°	551.6
7.5°	537.1
10°	517.3
12.5°	491.4
15°	458.1
17.5°	423.8
20°	384.4
22.5°	348.0
25°	304.4
27.5°	249.3
30°	191.1
32.5°	135.1
35°	95.6
37.5°	68.6
40°	48.8
42.5°	33.2
45°	21.8
47.5°	14.5
50°	10.4
52.5°	7.3
55°	5.2
57.5°	4.2
60°	3.1
62.5°	2.1
65°	2.1
67.5°	1.0
70°	1.0
72.5°	1.0
75°	1.0
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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Scaled Data Report



(END OF REPORT)