

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: P885873

Luminaire Tested: ML104LSFL9FS1E-TIR1D40FL-TL1RDMBB-400LM-2700K

Issue Date: 6/19/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P885873  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-129)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/19/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML104LSFL9FS1E-TIR1D40FL-TL1RDMBB-400LM-2700K  
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE BLACK BAFFLED TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

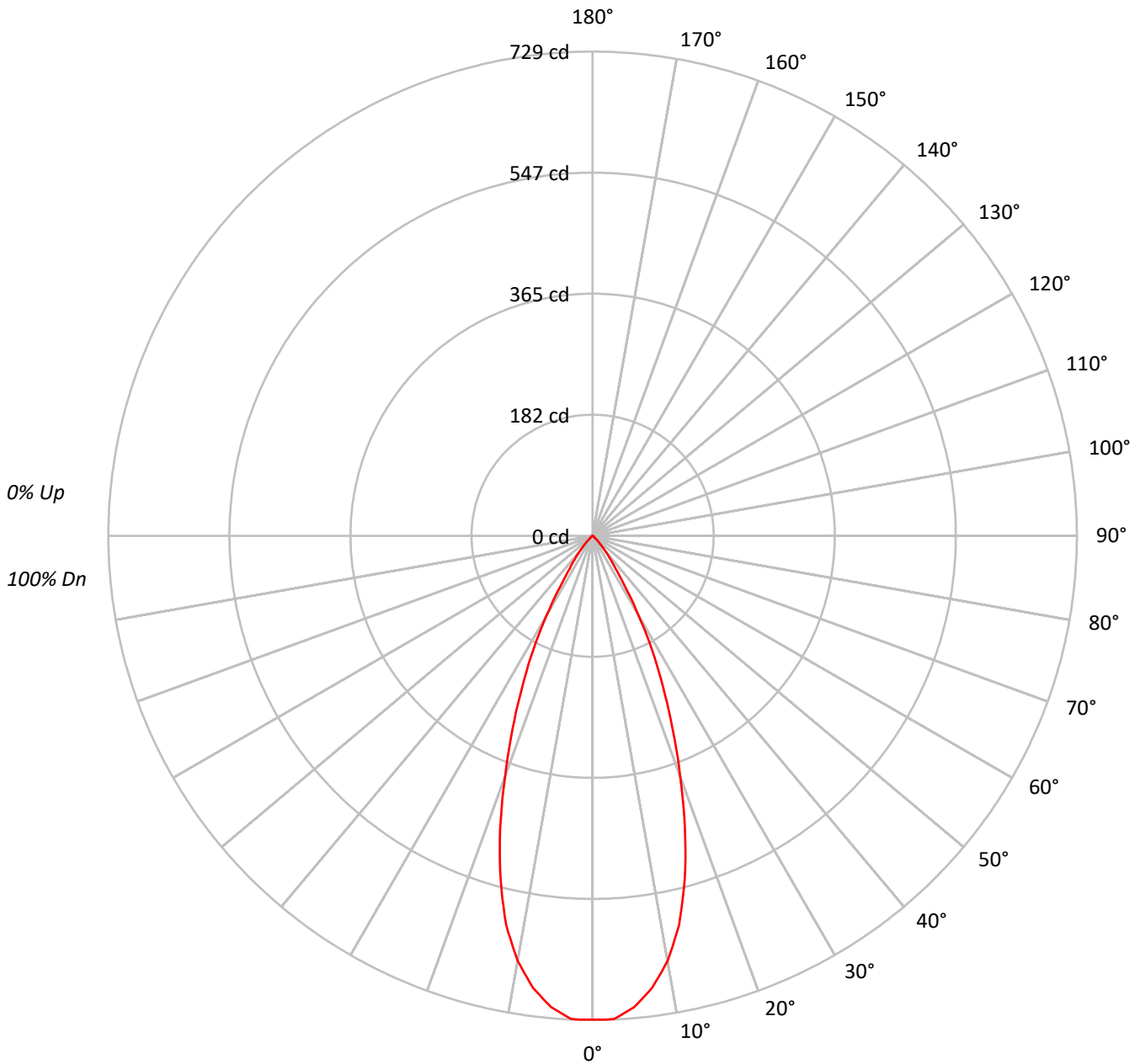
Lumens per Lamp: N/A  
Luminaire Lumens: 378.9 lumens  
Efficiency: N/A  
Efficacy: 63.2 lumens/watt  
Spacing Criteria (0/90/45): 0.67 / 0.67 / 0.66  
Luminous Opening: Circular (Dia: 0.08' x H: 0')  
CIE Type: Direct

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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**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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95		
2	110	105	102	99	107	104	100	98	100	98	96	97	95	94	95	93	92	90		
3	105	99	95	92	103	98	94	91	95	92	89	93	90	88	91	89	87	85		
4	101	94	89	86	99	93	89	85	91	87	84	89	86	83	87	85	82	81		
5	96	89	84	81	95	88	84	80	87	83	80	85	82	79	84	81	78	77		
6	93	85	80	76	91	84	79	76	83	78	75	81	78	75	80	77	74	73		
7	89	81	76	72	88	80	75	72	79	75	72	78	74	71	77	73	71	70		
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	68	66		
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	65	63		
10	79	71	66	62	78	70	65	62	69	65	62	69	65	62	68	64	62	61		

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

	0°
0°	1437923
5°	1411718
10°	1301790
15°	1094521
20°	808157
25°	544173
30°	314253
35°	144555
40°	74712
45°	25119
50°	9211
55°	3441
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 25119 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.0	17.4
10°-20°	146.1	38.6
20°-30°	114.7	30.3
30°-40°	42.3	11.2
40°-50°	8.8	2.3
50°-60°	1.0	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°	326.8	86.3
0°-40°	369.1	97.4
0°-60°	378.9	100.0
0°-90°	378.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	378.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	729	
5°	713	66
15°	536	146
25°	250	115
35°	60	42
45°	9	9
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	728.6
2.5°	728.6
5°	712.6
7.5°	686.6
10°	649.6
12.5°	600.7
15°	535.7
17.5°	462.7
20°	384.8
22.5°	314.8
25°	249.9
27.5°	193.9
30°	137.9
32.5°	90.9
35°	60.0
37.5°	43.0
40°	29.0
42.5°	17.0
45°	9.0
47.5°	5.0
50°	3.0
52.5°	2.0
55°	1.0
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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Scaled Data Report



(END OF REPORT)