

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P885943

Luminaire Tested: ML104LSFL9FS1E-TIR1D55WFL-TL1RDMWB-400LM-2700K

Issue Date: 6/19/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P885943  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-133)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/19/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML104LSFL9FS1E-TIR1D55WFL-TL1RDMWB-400LM-2700K  
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE BAFFLED TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

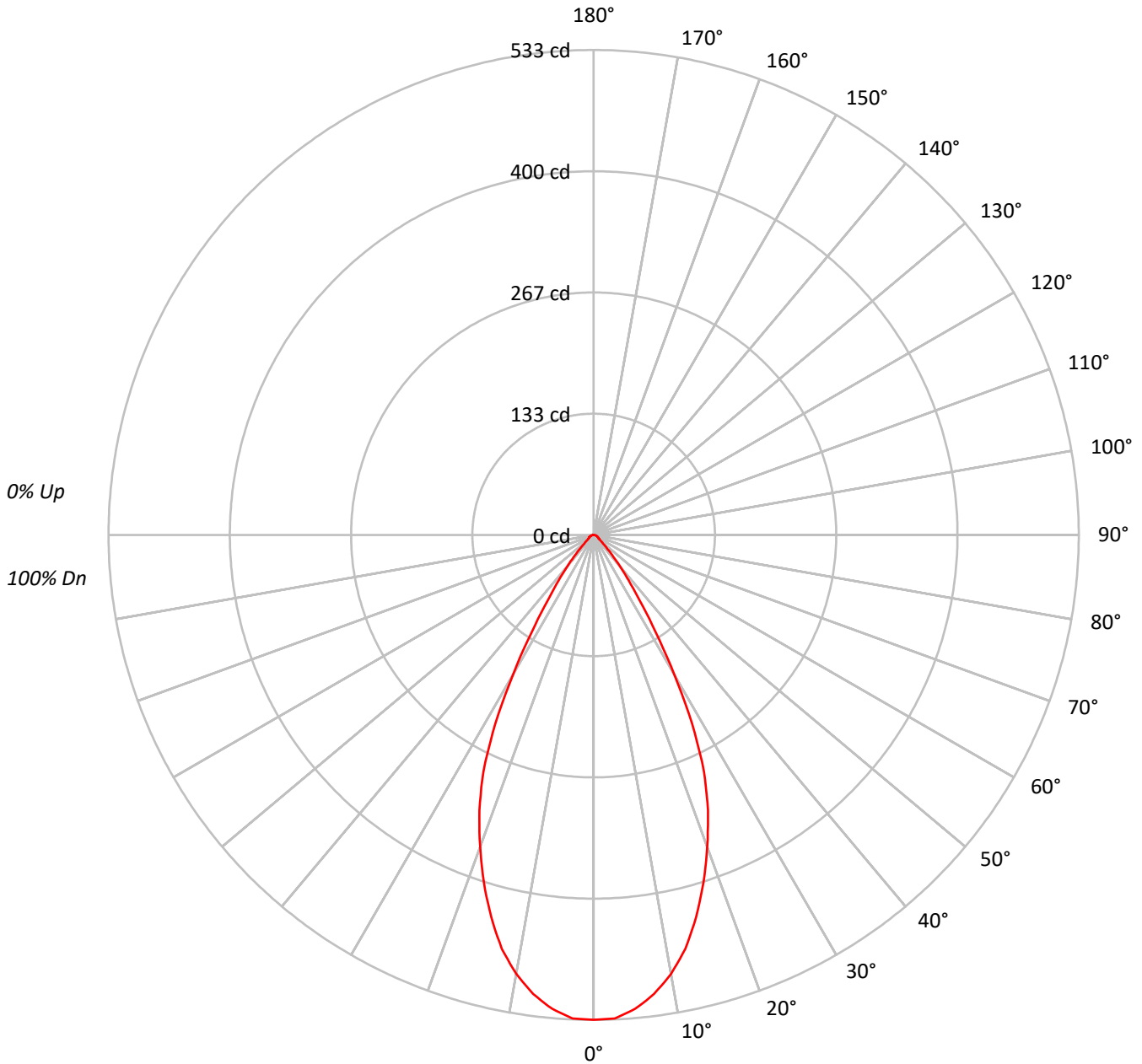
Lumens per Lamp: N/A  
Luminaire Lumens: 388.2 lumens  
Efficiency: N/A  
Efficacy: 64.7 lumens/watt  
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.78  
Luminous Opening: Circular (Dia: 0.08' x H: 0')  
CIE Type: Direct

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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93				
2	108	103	99	96	106	101	98	95	98	95	92	95	93	91	92	90	89	87				
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81				
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76				
5	93	85	79	75	91	84	79	75	82	77	74	80	76	73	79	75	73	71				
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67				
7	85	75	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63				
8	81	71	66	62	79	71	65	62	70	65	61	69	64	61	68	64	61	59				
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	61	58	56				
10	74	64	59	55	73	64	59	55	63	58	55	62	58	55	62	58	55	53				

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

	0°
0°	1051700
5°	1035907
10°	981753
15°	888571
20°	766363
25°	624743
30°	403356
35°	212014
40°	113356
45°	55820
50°	33773
55°	24085
60°	23683
65°	23349
70°	23081
75°	22876
80°	22730
85°	22644

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 55820 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.9	12.6
10°-20°	120.7	31.1
20°-30°	127.0	32.7
30°-40°	59.3	15.3
40°-50°	17.4	4.5
50°-60°	6.6	1.7
60°-70°	4.7	1.2
70°-80°	2.9	0.7
80°-90°	0.8	0.2
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°	296.6	76.4
0°-40°	355.8	91.7
0°-60°	379.8	97.8
0°-90°	388.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	388.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	533	
5°	523	49
15°	435	121
25°	287	127
35°	88	59
45°	20	17
55°	7	7
65°	5	5
75°	3	3
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	532.9
2.5°	531.9
5°	522.9
7.5°	508.9
10°	489.9
12.5°	465.9
15°	434.9
17.5°	400.9
20°	364.9
22.5°	327.9
25°	286.9
27.5°	233.9
30°	177.0
32.5°	126.0
35°	88.0
37.5°	63.0
40°	44.0
42.5°	30.0
45°	20.0
47.5°	14.0
50°	11.0
52.5°	8.0
55°	7.0
57.5°	6.0
60°	6.0
62.5°	5.0
65°	5.0
67.5°	4.0
70°	4.0
72.5°	3.0
75°	3.0
77.5°	2.0
80°	2.0
82.5°	1.0
85°	1.0
87.5°	0.0
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)