

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: P886394

Luminaire Tested: ML204LSFL9FS1E-TIR1D55WFL-TL2RDMW-550LM-5000K

Issue Date: 6/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886394  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-83)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFL9FS1E-TIR1D55WFL-TL2RDMW-550LM-5000K  
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 666.7 lumens  
Efficiency: N/A  
Efficacy: 84.4 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.82  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

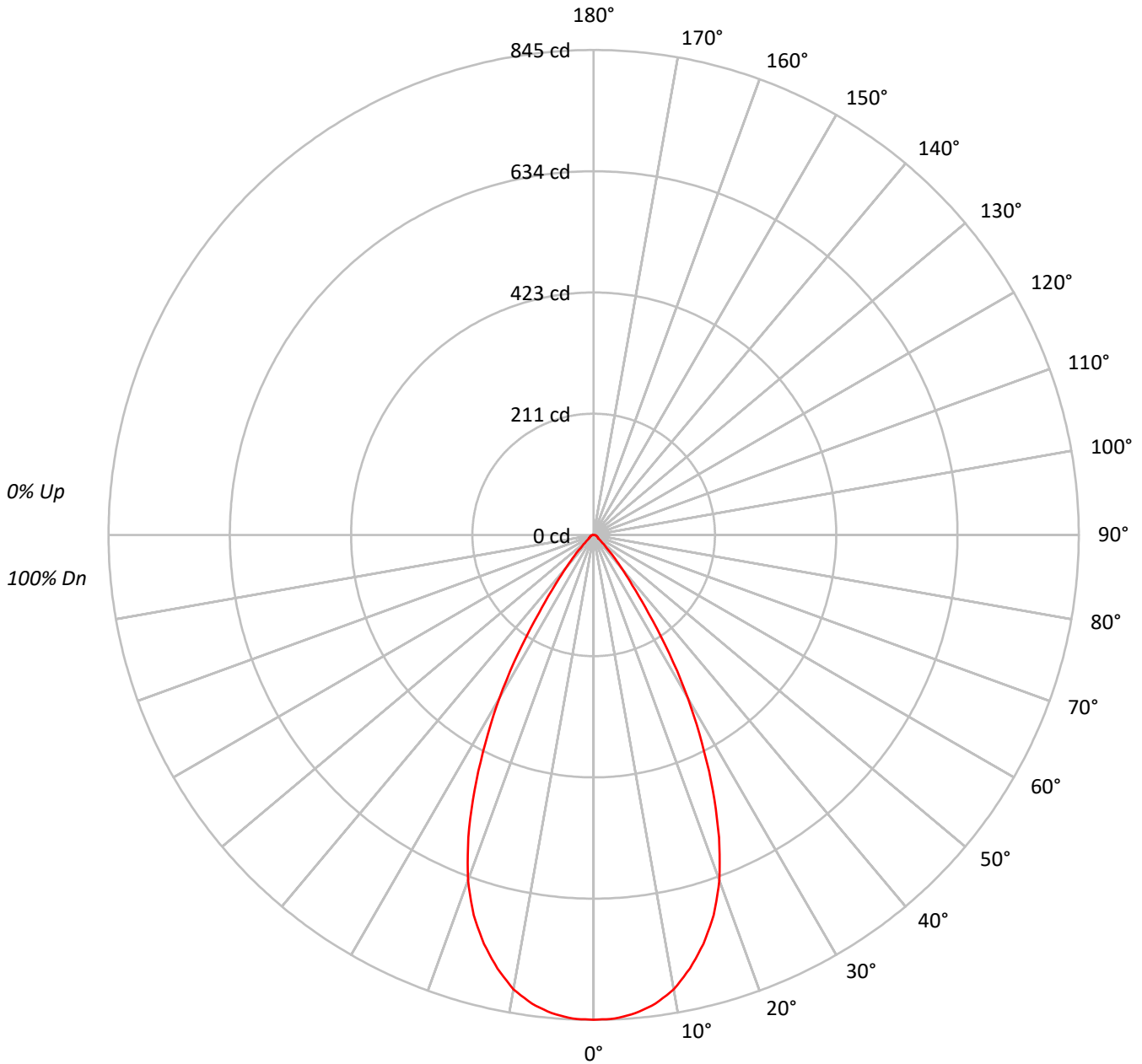
Input Watts (W): 7.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	90	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	78	74	82	77	74	80	76	73	79	75	73	71			
6	88	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67			
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63			
8	80	71	65	61	79	71	65	61	70	65	61	69	64	61	68	64	60	59			
9	77	67	62	58	76	67	62	58	66	61	58	65	61	57	64	60	57	56			
10	73	64	58	55	72	64	58	55	63	58	54	62	58	54	61	57	54	53			

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

	0°
0°	416807
5°	414338
10°	402847
15°	376908
20°	336185
25°	267565
30°	186693
35°	100103
40°	48627
45°	22677
50°	11590
55°	8000
60°	7993
65°	8172
70°	8367
75°	8769
80°	9944
85°	6793

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 22677 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.8	11.8
10°-20°	205.2	30.8
20°-30°	221.8	33.3
30°-40°	110.4	16.6
40°-50°	28.4	4.3
50°-60°	9.0	1.4
60°-70°	6.6	1.0
70°-80°	4.6	0.7
80°-90°	1.8	0.3
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°	505.9	75.9
0°-40°	616.3	92.4
0°-60°	653.7	98.1
0°-90°	666.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	666.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	845	
5°	837	79
15°	738	205
25°	492	222
35°	166	110
45°	32	28
55°	9	9
65°	7	7
75°	5	5
85°	1	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	844.8
2.5°	843.6
5°	836.6
7.5°	823.9
10°	804.1
12.5°	773.9
15°	737.9
17.5°	694.9
20°	640.3
22.5°	570.5
25°	491.5
27.5°	407.9
30°	327.7
32.5°	245.2
35°	166.2
37.5°	110.4
40°	75.5
42.5°	51.1
45°	32.5
47.5°	20.9
50°	15.1
52.5°	11.6
55°	9.3
57.5°	8.1
60°	8.1
62.5°	7.0
65°	7.0
67.5°	5.8
70°	5.8
72.5°	4.6
75°	4.6
77.5°	3.5
80°	3.5
82.5°	2.3
85°	1.2
87.5°	1.2
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)