

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: P886401

Luminaire Tested: ML204LSFL9FS1E-TIR1D55WFL-TL2RDSL-550LM-3000K

Issue Date: 6/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886401  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-84)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFL9FS1E-TIR1D55WFL-TL2RDSL-550LM-3000K  
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 585.7 lumens  
Efficiency: N/A  
Efficacy: 74.1 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.81  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

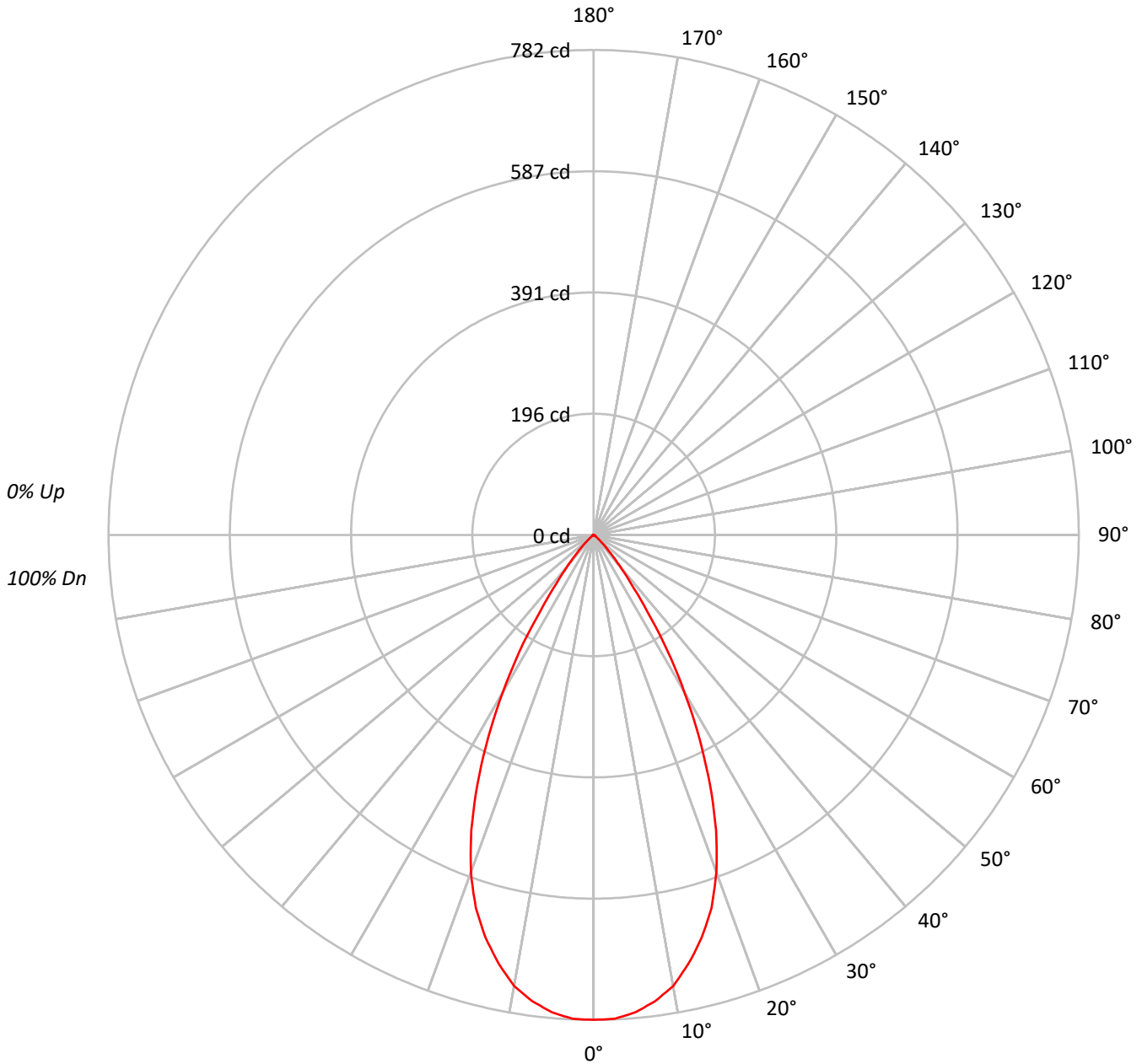
Input Watts (W): 7.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88																			
3	103	97	93	89	102	96	92	88	93	90	87	91	88	86	89	86	84	83																			
4	99	92	86	82	97	90	86	82	88	84	81	86	83	80	84	81	79	78																			
5	94	86	81	77	92	85	80	76	83	79	76	82	78	75	80	77	74	73																			
6	90	81	76	72	88	80	75	71	79	74	71	78	74	70	76	73	70	69																			
7	86	77	71	67	84	76	71	67	75	70	67	74	69	66	73	69	66	65																			
8	82	73	67	63	81	72	67	63	71	66	63	70	66	63	69	65	62	61																			
9	78	69	63	60	77	68	63	60	68	63	59	67	62	59	66	62	59	58																			
10	75	66	60	56	74	65	60	56	64	59	56	64	59	56	63	59	56	55																			

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

	0°
0°	385773
5°	382641
10°	370032
15°	343451
20°	303738
25°	241217
30°	166525
35°	90225
40°	41928
45°	17304
50°	6371
55°	2667
60°	2072
65°	1167
70°	1443
75°	1906
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17304 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.7	12.4
10°-20°	186.9	31.9
20°-30°	199.9	34.1
30°-40°	98.8	16.9
40°-50°	22.1	3.8
50°-60°	3.4	0.6
60°-70°	1.1	0.2
70°-80°	0.7	0.1
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°	459.5	78.5
0°-40°	558.3	95.3
0°-60°	583.9	99.7
0°-90°	585.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	585.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	782	
5°	773	73
15°	672	187
25°	443	200
35°	150	99
45°	25	22
55°	3	3
65°	1	1
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	781.9
2.5°	780.9
5°	772.6
7.5°	758.2
10°	738.6
12.5°	707.6
15°	672.4
17.5°	631.1
20°	578.5
22.5°	515.4
25°	443.1
27.5°	367.7
30°	292.3
32.5°	221.1
35°	149.8
37.5°	98.1
40°	65.1
42.5°	41.3
45°	24.8
47.5°	14.5
50°	8.3
52.5°	5.2
55°	3.1
57.5°	2.1
60°	2.1
62.5°	1.0
65°	1.0
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)