

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: P886430

Luminaire Tested: ML204LSFL9FS1E-TIR1D55WFL-TL2SDSL-550LM-2700K

Issue Date: 6/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886430  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-102)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFL9FS1E-TIR1D55WFL-TL2SDSL-550LM-2700K  
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 577.8 lumens  
Efficiency: N/A  
Efficacy: 73.1 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.82  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

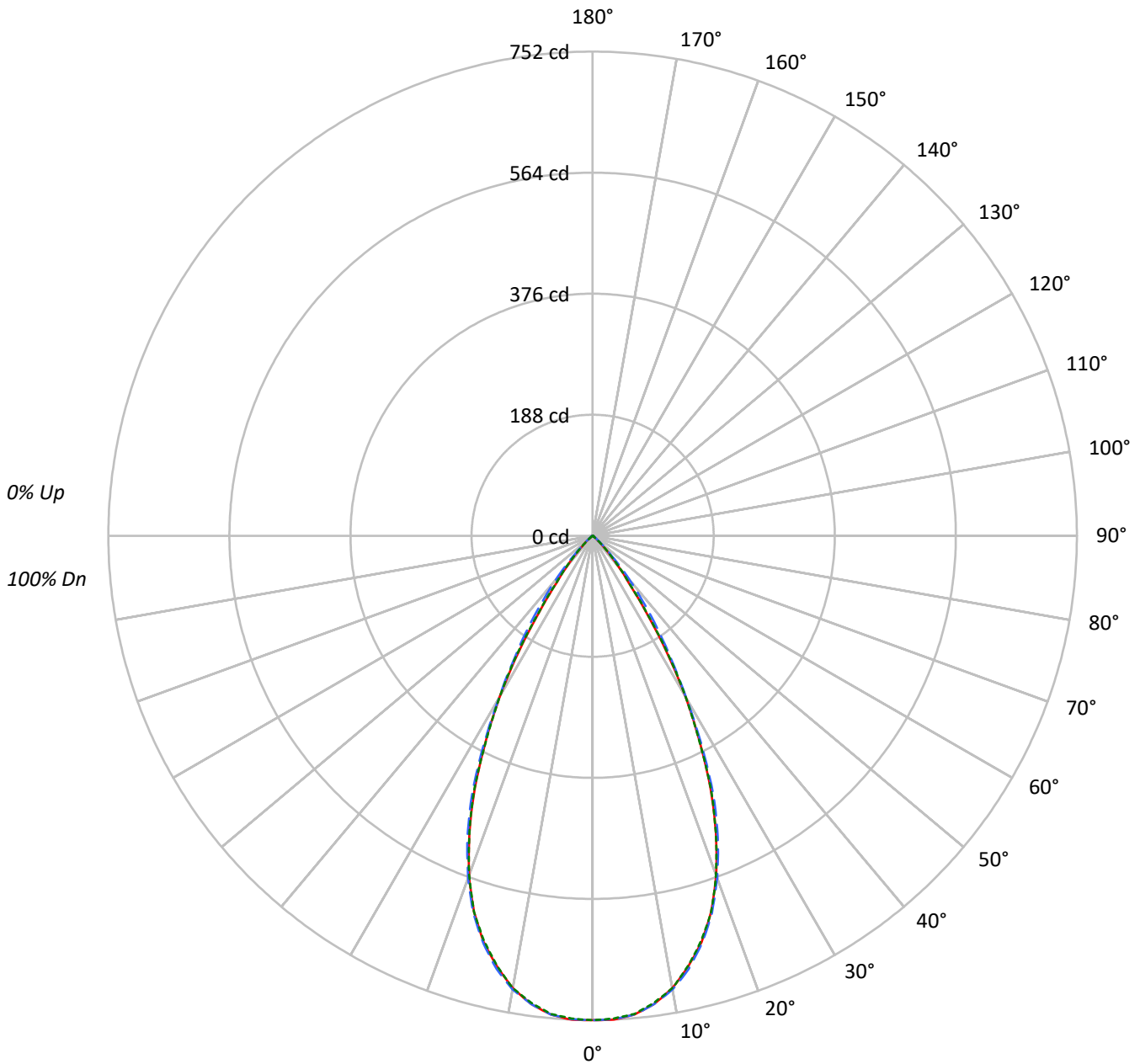
Input Watts (W): 7.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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	101	96	92	88	93	90	87	91	88	85	89	86	84	83				
4	99	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77				
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	73				
6	90	81	75	71	88	80	75	71	79	74	71	77	73	70	76	73	70	68				
7	85	77	71	67	84	76	71	67	75	70	66	73	69	66	72	69	66	64				
8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	61				
9	78	69	63	59	77	68	63	59	67	62	59	66	62	59	66	62	59	57				
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	63	58	55	54				

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

	0°	45°	90°
0°	291555	291555	291555
5°	290334	290334	289945
10°	280707	281494	280707
15°	262084	262886	261281
20°	231462	233112	231050
25°	185218	189494	186073
30°	128909	129804	128909
35°	67693	82358	69586
40°	31868	45020	32374
45°	12604	16440	12604
50°	4220	5426	4220
55°	1351	2702	1351
60°	775	775	775
65°	917	0	917
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 16440 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.2	12.1
10°-20°	181.5	31.4
20°-30°	196.5	34.0
30°-40°	102.5	17.7
40°-50°	23.5	4.1
50°-60°	3.0	0.5
60°-70°	0.6	0.1
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°	448.1	77.6
0°-40°	550.6	95.3
0°-60°	577.1	99.9
0°-90°	577.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	577.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	752	752	752	752	752	
5°	746	745	746	745	745	70
15°	653	653	655	653	651	181
25°	433	437	443	436	435	195
35°	143	161	174	162	147	95
45°	23	25	30	25	23	21
55°	2	3	4	3	2	2
65°	1	1	0	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	752.4	752.4	752.4	752.4	752.4
2.5°	752.4	752.4	751.4	752.4	750.4
5°	746.4	745.4	746.4	745.4	745.4
7.5°	733.4	733.4	733.4	732.4	731.4
10°	713.4	714.4	715.4	714.4	713.4
12.5°	685.3	685.3	689.3	684.3	684.3
15°	653.3	653.3	655.3	653.3	651.3
17.5°	612.3	613.3	615.3	611.3	612.3
20°	561.3	562.3	565.3	563.3	560.3
22.5°	500.2	504.2	508.3	509.3	500.2
25°	433.2	437.2	443.2	436.2	435.2
27.5°	359.2	360.2	366.2	362.2	357.2
30°	288.1	288.1	290.1	287.1	288.1
32.5°	213.1	225.1	227.1	225.1	218.1
35°	143.1	161.1	174.1	162.1	147.1
37.5°	92.0	103.1	126.1	104.1	93.0
40°	63.0	66.0	89.0	66.0	64.0
42.5°	40.0	43.0	54.0	43.0	40.0
45°	23.0	25.0	30.0	25.0	23.0
47.5°	13.0	14.0	17.0	14.0	14.0
50°	7.0	8.0	9.0	8.0	7.0
52.5°	4.0	5.0	6.0	5.0	4.0
55°	2.0	3.0	4.0	3.0	2.0
57.5°	1.0	1.0	2.0	1.0	1.0
60°	1.0	1.0	1.0	1.0	1.0
62.5°	1.0	1.0	1.0	1.0	1.0
65°	1.0	1.0	0.0	1.0	1.0
67.5°	0.0	1.0	0.0	0.0	1.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

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

Scaled Data Report



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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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