

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: P886248

Luminaire Tested: ML204LSFL95FS1E-TIR1D55WFL-TL2SDSLB-468LM-4000K

Issue Date: 6/20/2024

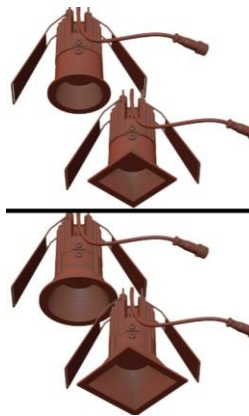
**Test Information**

Test Method: LM-79-2019  
Report Number: P886248  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-105)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFL95FS1E-TIR1D55WFL-TL2SDSLB-468LM-4000K  
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER BAFFLED TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 531.0 lumens  
Efficiency: N/A  
Efficacy: 66.4 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.86 / 0.82  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

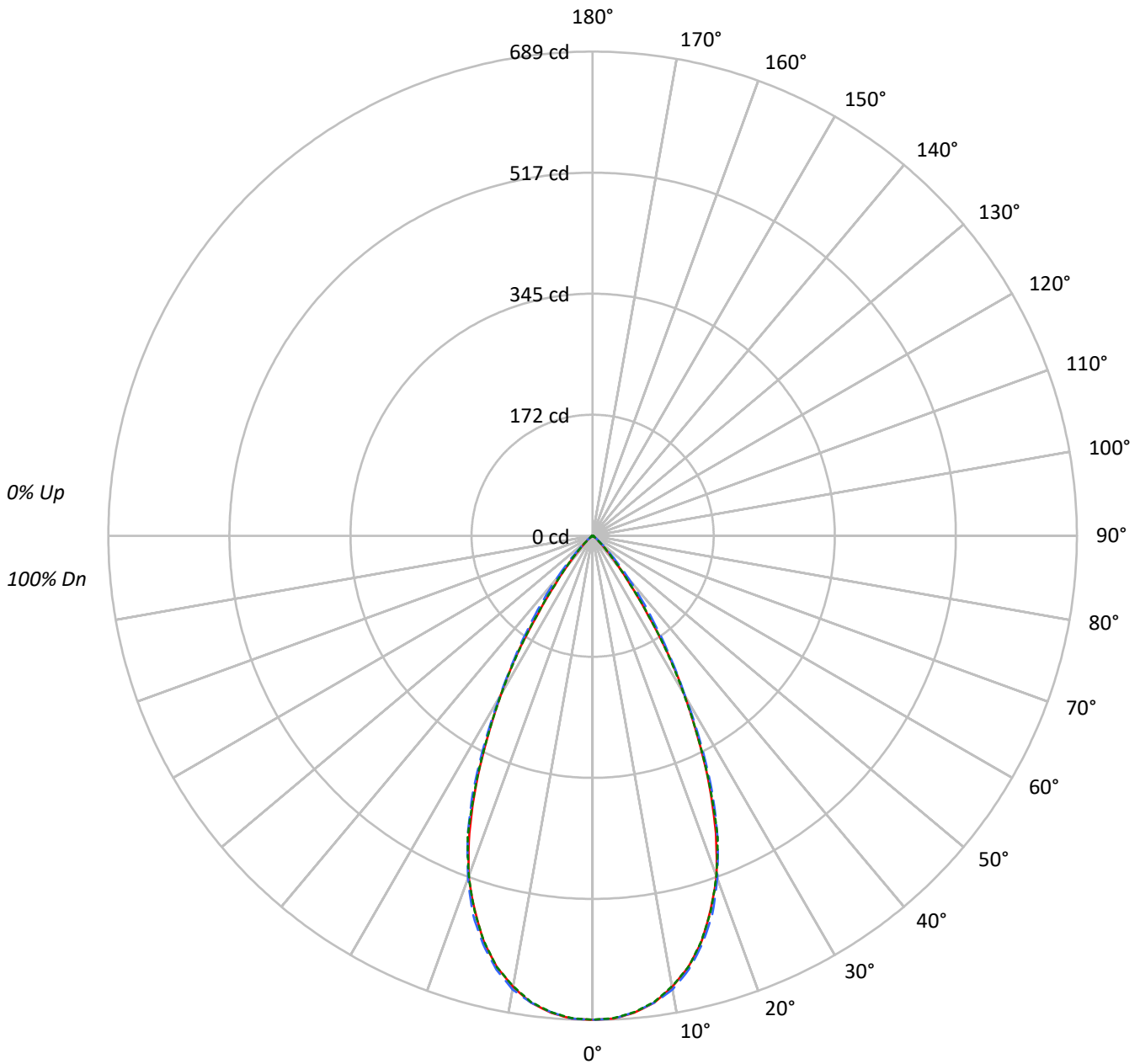
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	101	96	92	88	93	90	87	91	88	85	89	86	84	82																			
4	98	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	72																			
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68																			
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64																			
8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	60																			
9	78	68	63	59	77	68	63	59	67	62	59	66	62	59	65	61	58	57																			
10	74	65	59	56	73	65	59	56	64	59	56	63	59	55	62	58	55	54																			

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

	0°	45°	90°
0°	266871	266871	266871
5°	265012	264662	264662
10°	256429	257885	256075
15°	239899	241383	239538
20°	212617	213772	212246
25°	168201	172178	169014
30°	116381	118036	115978
35°	64382	73985	65707
40°	29035	40265	29491
45°	12166	16221	12659
50°	5004	6149	5004
55°	1892	2500	1892
60°	697	697	697
65°	825	825	825
70°	1020	0	1020
75°	0	0	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 16221 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.1	12.1
10°-20°	166.4	31.3
20°-30°	179.3	33.8
30°-40°	94.4	17.8
40°-50°	22.5	4.2
50°-60°	3.4	0.6
60°-70°	0.8	0.2
70°-80°	0.1	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°	409.8	77.2
0°-40°	504.2	95.0
0°-60°	530.1	99.8
0°-90°	531.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	531.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	689	689	689	689	689	
5°	681	681	680	680	680	64
15°	598	598	602	598	597	166
25°	393	397	403	398	395	177
35°	136	149	156	148	139	89
45°	22	24	30	24	23	20
55°	3	3	4	3	3	3
65°	1	1	1	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°	688.7	688.7	688.7	688.7	688.7
2.5°	687.8	687.8	687.8	686.9	686.9
5°	681.3	681.3	680.4	680.4	680.4
7.5°	670.2	671.1	670.2	669.3	669.3
10°	651.7	653.6	655.4	654.5	650.8
12.5°	628.6	628.6	632.3	628.6	628.6
15°	598.0	598.0	601.7	598.0	597.1
17.5°	558.2	561.0	565.6	561.0	559.1
20°	515.6	515.6	518.4	518.4	514.7
22.5°	458.2	461.9	464.7	463.8	464.7
25°	393.4	397.1	402.7	398.1	395.3
27.5°	324.0	327.7	332.3	331.4	325.9
30°	260.1	264.8	263.8	262.9	259.2
32.5°	201.8	205.5	206.4	204.6	199.0
35°	136.1	149.0	156.4	148.1	138.9
37.5°	87.9	99.1	113.9	100.0	88.9
40°	57.4	61.1	79.6	64.8	58.3
42.5°	36.1	39.8	52.8	39.8	37.0
45°	22.2	24.1	29.6	24.1	23.1
47.5°	13.0	13.9	17.6	13.9	13.9
50°	8.3	8.3	10.2	8.3	8.3
52.5°	4.6	5.6	6.5	5.6	5.6
55°	2.8	2.8	3.7	2.8	2.8
57.5°	1.9	1.9	1.9	1.9	1.9
60°	0.9	0.9	0.9	0.9	0.9
62.5°	0.9	0.9	0.9	0.9	0.9
65°	0.9	0.9	0.9	0.9	0.9
67.5°	0.9	0.9	0.9	0.9	0.9
70°	0.9	0.0	0.0	0.0	0.9
72.5°	0.9	0.0	0.0	0.0	0.9
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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