

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: P886172

Luminaire Tested: ML204LSFL95FS1E-TIR1D40FL-TL2SDMW-468LM-3500K

Issue Date: 6/20/2024

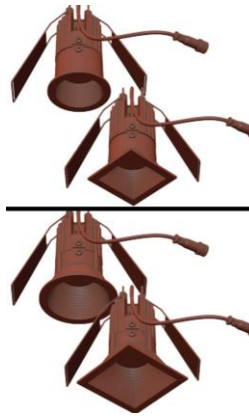
**Test Information**

Test Method: LM-79-2019  
Report Number: P886172  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-95)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFL95FS1E-TIR1D40FL-TL2SDMW-468LM-3500K  
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE WHITE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 543.8 lumens  
Efficiency: N/A  
Efficacy: 68.0 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

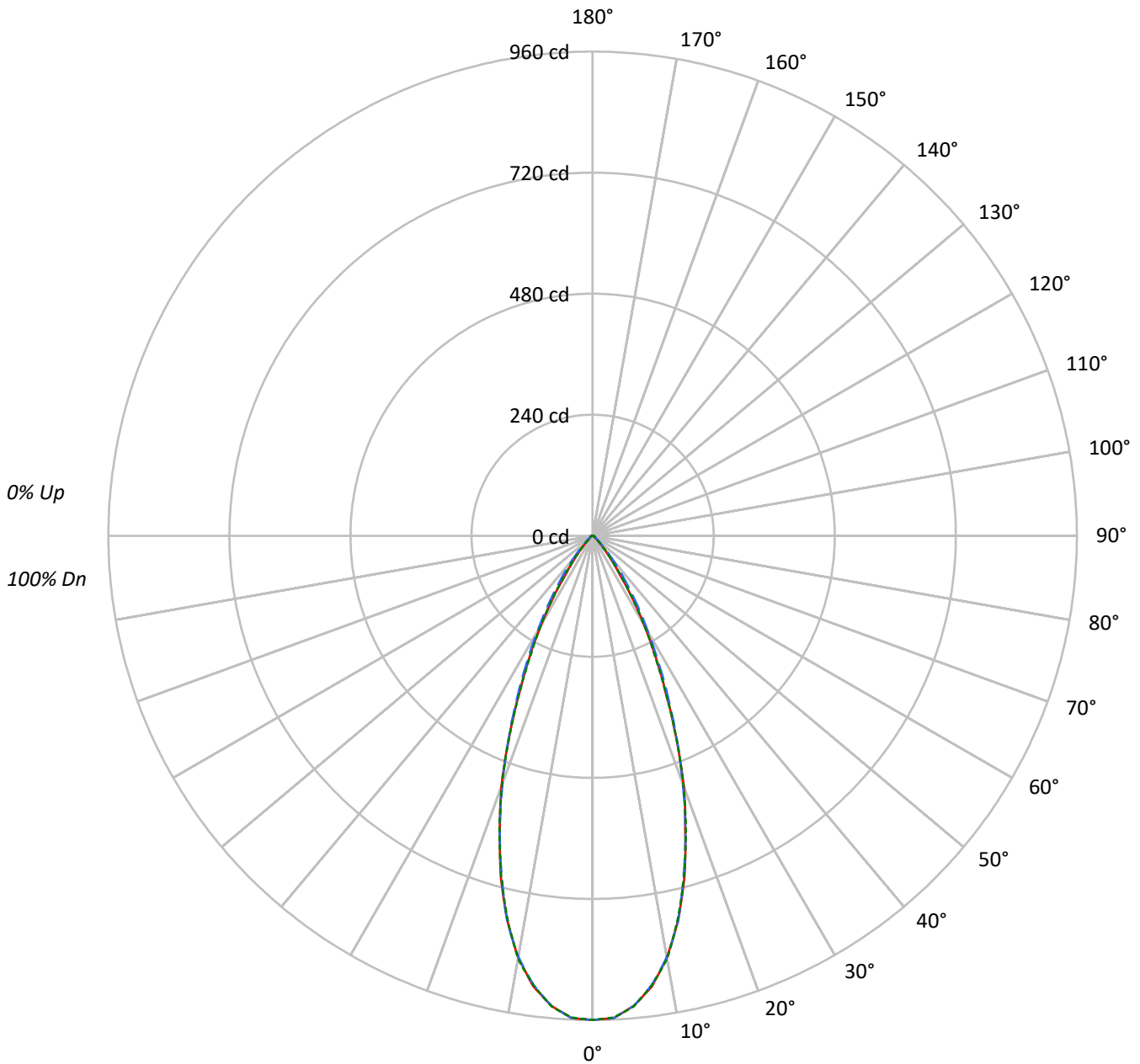
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94						94													
2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	88						88													
3	104	98	93	89	102	96	92	89	94	90	87	91	89	86	89	87	85	83						83													
4	99	92	87	83	97	91	86	83	89	85	82	87	84	81	85	82	80	78						78													
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74						74													
6	91	83	77	73	89	82	77	73	80	76	72	79	75	72	78	74	71	70						70													
7	87	78	73	69	86	78	73	69	76	72	68	75	71	68	74	71	68	66						66													
8	83	75	69	65	82	74	69	65	73	68	65	72	68	65	71	67	64	63						63													
9	80	71	66	62	79	71	65	62	70	65	62	69	65	62	68	64	61	60						60													
10	77	68	63	59	76	67	62	59	67	62	59	66	62	59	65	61	58	57						57													

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

	0°	45°	90°
0°	92981	92981	92981
5°	90993	90993	91080
10°	83506	83418	83772
15°	70426	69884	70155
20°	54505	53856	54134
25°	36621	37764	36621
30°	22909	24419	22820
35°	10998	14594	11744
40°	5539	7689	5539
45°	2206	3795	2452
50°	1221	2020	1341
55°	912	1216	1064
60°	872	1046	872
65°	825	1032	825
70°	765	1020	765
75°	1011	1011	1011
80°	1004	1004	1004
85°	1000	1000	1000

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 3795 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.5	15.9
10°-20°	192.1	35.3
20°-30°	160.3	29.5
30°-40°	72.1	13.3
40°-50°	19.0	3.5
50°-60°	6.2	1.1
60°-70°	4.1	0.8
70°-80°	2.6	0.5
80°-90°	0.9	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°	439.0	80.7
0°-40°	511.1	94.0
0°-60°	536.3	98.6
0°-90°	543.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	543.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	960	960	960	960	960	
5°	936	937	936	936	937	87
15°	702	700	697	698	700	193
25°	343	349	353	350	343	159
35°	93	108	123	110	99	65
45°	16	22	28	22	18	15
55°	5	6	7	6	6	5
65°	4	4	4	4	4	4
75°	3	3	3	3	3	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	959.8	959.8	959.8	959.8	959.8
2.5°	957.1	957.1	957.1	958.0	956.2
5°	935.7	936.6	935.7	935.7	936.6
7.5°	900.8	900.8	898.1	899.0	899.0
10°	848.9	847.1	848.0	847.1	851.6
12.5°	781.8	782.7	782.7	784.5	779.1
15°	702.2	699.5	696.8	697.7	699.5
17.5°	611.0	611.0	611.9	610.1	614.5
20°	528.7	525.1	522.4	518.8	525.1
22.5°	432.1	433.8	434.7	432.1	432.9
25°	342.6	348.9	353.3	349.8	342.6
27.5°	270.1	270.1	281.8	273.7	265.7
30°	204.8	210.2	218.3	210.2	204.0
32.5°	145.8	156.5	167.3	157.4	146.7
35°	93.0	108.2	123.4	110.0	99.3
37.5°	63.5	72.5	89.5	73.4	66.2
40°	43.8	48.3	60.8	49.2	43.8
42.5°	28.6	33.1	41.1	33.1	28.6
45°	16.1	21.5	27.7	21.5	17.9
47.5°	9.8	12.5	19.7	13.4	11.6
50°	8.1	9.8	13.4	8.9	8.9
52.5°	7.2	8.1	8.9	8.1	7.2
55°	5.4	6.3	7.2	6.3	6.3
57.5°	5.4	5.4	6.3	5.4	5.4
60°	4.5	5.4	5.4	5.4	4.5
62.5°	4.5	4.5	4.5	4.5	4.5
65°	3.6	4.5	4.5	4.5	3.6
67.5°	3.6	3.6	3.6	3.6	3.6
70°	2.7	3.6	3.6	3.6	2.7
72.5°	2.7	2.7	2.7	2.7	2.7
75°	2.7	2.7	2.7	2.7	2.7
77.5°	1.8	1.8	1.8	1.8	1.8
80°	1.8	1.8	1.8	1.8	1.8
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.9	0.9	0.9	0.9	0.9
87.5°	0.0	0.9	0.0	0.9	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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