

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: P886188

Luminaire Tested: ML204LSFL95FS1E-TIR1D40FL-TL2SDSLB-468LM-4000K

Issue Date: 6/20/2024

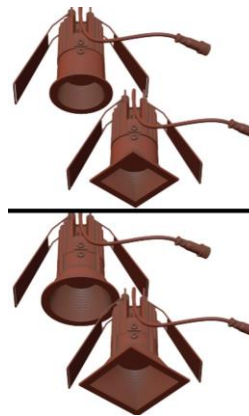
**Test Information**

Test Method: LM-79-2019  
Report Number: P886188  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-99)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFL95FS1E-TIR1D40FL-TL2SDSLB-468LM-4000K  
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER BAFFLED TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

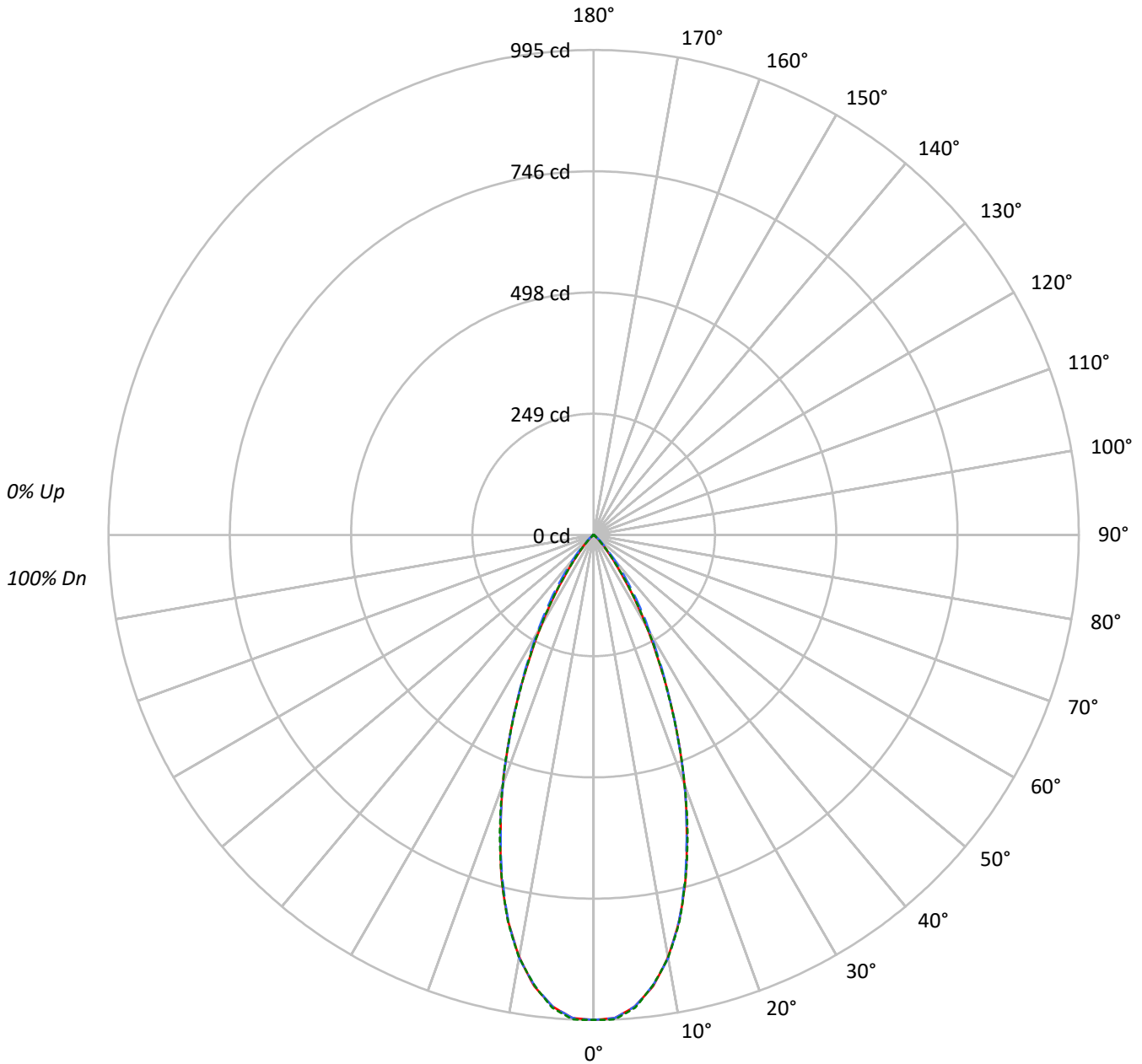
Lumens per Lamp: N/A  
Luminaire Lumens: 557.3 lumens  
Efficiency: N/A  
Efficacy: 69.7 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

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					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	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	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95					95			
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89					89			
3	104	99	94	91	102	97	93	90	95	91	88	92	89	87	90	88	86	84					84			
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80					80			
5	95	88	83	79	94	87	82	79	85	81	78	84	80	77	82	79	77	75					75			
6	91	83	78	74	90	83	78	74	81	77	74	80	76	73	79	75	73	71					71			
7	88	79	74	70	86	79	74	70	77	73	70	76	72	69	75	72	69	68					68			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64					64			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61					61			
10	77	69	63	60	76	68	63	60	67	63	60	67	63	60	66	62	59	58					58			

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

	0°	45°	90°
0°	385562	385562	385562
5°	377660	377660	378749
10°	345984	346693	346339
15°	292572	291088	292211
20°	224782	224782	224782
25°	156315	156315	154733
30°	96917	102689	97319
35°	49481	61733	51231
40°	22459	33234	23421
45°	9152	14193	9152
50°	3376	6692	3376
55°	1892	1892	1892
60°	697	697	697
65°	825	825	825
70°	1020	0	1020
75°	1347	0	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 14193 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.8	16.1
10°-20°	199.7	35.8
20°-30°	168.1	30.2
30°-40°	77.3	13.9
40°-50°	18.5	3.3
50°-60°	2.8	0.5
60°-70°	0.9	0.2
70°-80°	0.2	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°	457.6	82.1
0°-40°	534.9	96.0
0°-60°	556.2	99.8
0°-90°	557.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	557.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	995	995	995	995	995	
5°	971	972	971	972	974	90
15°	729	731	726	726	728	200
25°	366	366	366	366	362	167
35°	105	119	130	120	108	70
45°	17	20	26	21	17	15
55°	3	3	3	3	3	3
65°	1	1	1	1	1	1
75°	1	0	0	0	0	1
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°	995.0	995.0	995.0	995.0	995.0
2.5°	992.2	991.3	992.2	993.1	995.0
5°	970.9	971.8	970.9	971.8	973.7
7.5°	933.9	934.8	932.0	932.9	932.0
10°	879.3	881.1	881.1	881.1	880.2
12.5°	810.8	810.8	809.9	807.1	812.6
15°	729.3	731.2	725.6	725.6	728.4
17.5°	634.9	635.8	634.0	639.6	640.5
20°	545.1	546.1	545.1	544.2	545.1
22.5°	451.7	455.4	450.7	457.2	452.6
25°	365.6	366.5	365.6	366.5	361.9
27.5°	283.2	285.1	293.4	288.8	285.1
30°	216.6	221.2	229.5	221.2	217.5
32.5°	157.3	168.4	177.7	171.2	160.1
35°	104.6	119.4	130.5	120.3	108.3
37.5°	69.4	76.8	93.5	78.7	70.3
40°	44.4	50.0	65.7	50.9	46.3
42.5°	29.6	33.3	42.6	34.2	30.5
45°	16.7	20.4	25.9	21.3	16.7
47.5°	8.3	11.1	17.6	11.1	8.3
50°	5.6	5.6	11.1	5.6	5.6
52.5°	3.7	3.7	5.6	3.7	3.7
55°	2.8	2.8	2.8	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	0.9	0.0	0.9	0.9
72.5°	0.9	0.0	0.0	0.0	0.9
75°	0.9	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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