

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: P886181

Luminaire Tested: ML204LSFL95FS1E-TIR1D40FL-TL2SDSL-468LM-3000K

Issue Date: 6/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886181  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-96)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFL95FS1E-TIR1D40FL-TL2SDSL-468LM-3000K  
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

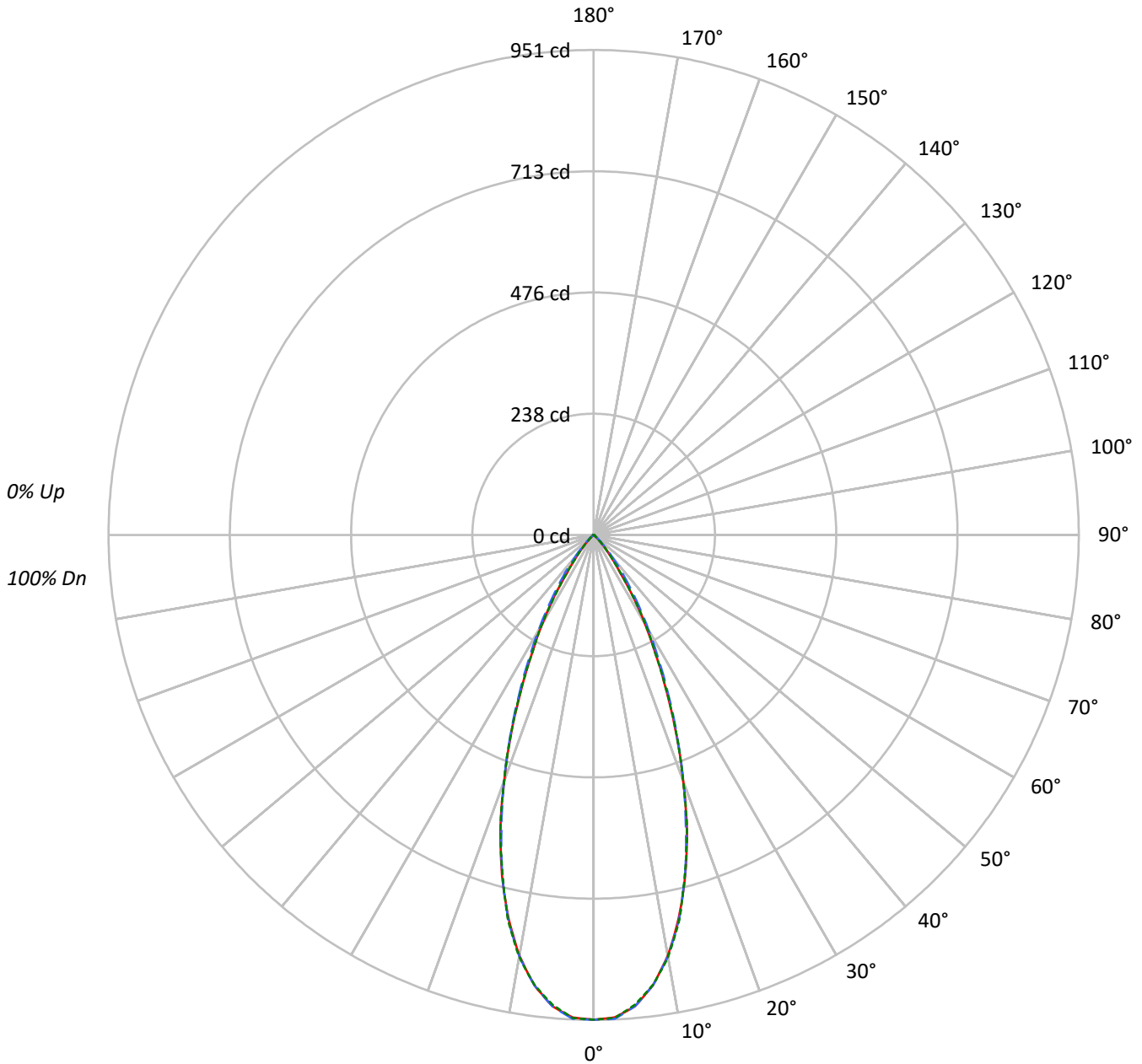
Lumens per Lamp: N/A  
Luminaire Lumens: 520.8 lumens  
Efficiency: N/A  
Efficacy: 65.1 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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					70					50					30				
RW	70	50	30	10	70	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	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95		
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89		
3	105	99	94	91	103	97	93	90	95	91	89	93	90	87	90	88	86	85		
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80		
5	96	88	83	79	94	87	83	79	86	82	78	84	80	78	83	80	77	76		
6	92	84	79	75	90	83	78	74	82	77	74	80	76	73	79	76	73	72		
7	88	80	74	71	87	79	74	70	78	73	70	77	73	70	76	72	69	68		
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	72	69	66	65		
9	81	72	67	64	80	72	67	64	71	66	63	70	66	63	69	66	63	62		
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59		

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

	0°	45°	90°
0°	92090	92090	92090
5°	90244	90244	89913
10°	82424	82513	82680
15°	69523	69352	69182
20°	52887	52969	52887
25°	36033	37048	36214
30°	22585	24039	22775
35°	10762	14144	11176
40°	5147	7234	5046
45°	1781	3083	1781
50°	648	1176	648
55°	287	287	287
60°	174	174	174
65°	206	206	206
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: 3083 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.7	16.4
10°-20°	189.7	36.4
20°-30°	157.6	30.3
30°-40°	69.7	13.4
40°-50°	15.6	3.0
50°-60°	1.9	0.4
60°-70°	0.7	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°	433.0	83.1
0°-40°	502.7	96.5
0°-60°	520.2	99.9
0°-90°	520.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	520.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	951	951	951	951	951	
5°	928	928	928	927	925	86
15°	693	689	692	689	690	190
25°	337	344	347	345	339	155
35°	91	106	120	106	94	63
45°	13	17	22	16	13	13
55°	2	2	2	2	2	2
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°	950.6	950.6	950.6	950.6	950.6
2.5°	947.1	948.0	949.7	947.1	948.0
5°	928.0	928.0	928.0	927.2	924.6
7.5°	890.8	889.9	890.8	889.1	889.9
10°	837.9	840.5	838.8	838.8	840.5
12.5°	770.3	778.1	772.9	772.1	774.7
15°	693.2	688.9	691.5	688.9	689.8
17.5°	608.3	599.6	601.4	604.8	608.3
20°	513.0	514.7	513.8	514.7	513.0
22.5°	423.7	428.9	427.2	427.2	425.5
25°	337.1	344.0	346.6	344.9	338.8
27.5°	261.7	266.0	275.6	266.9	260.8
30°	201.9	206.2	214.9	205.4	203.6
32.5°	144.7	154.2	162.9	153.4	142.1
35°	91.0	105.7	119.6	105.7	94.5
37.5°	59.8	67.6	85.8	67.6	61.5
40°	40.7	45.1	57.2	44.2	39.9
42.5°	25.1	29.5	36.4	28.6	25.1
45°	13.0	17.3	22.5	16.5	13.0
47.5°	6.9	7.8	14.7	8.7	6.1
50°	4.3	4.3	7.8	4.3	4.3
52.5°	2.6	2.6	3.5	2.6	2.6
55°	1.7	1.7	1.7	1.7	1.7
57.5°	0.9	0.9	1.7	0.9	0.9
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	0.0	0.0	0.9
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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