

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: P886101

Luminaire Tested: ML204LSFL95FS1E-TIR1D25NFL-TL2SDMB-468LM-3000K

Issue Date: 6/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886101  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-91)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFL95FS1E-TIR1D25NFL-TL2SDMB-468LM-3000K  
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 375.0 lumens  
Efficiency: N/A  
Efficacy: 46.9 lumens/watt  
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.53  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

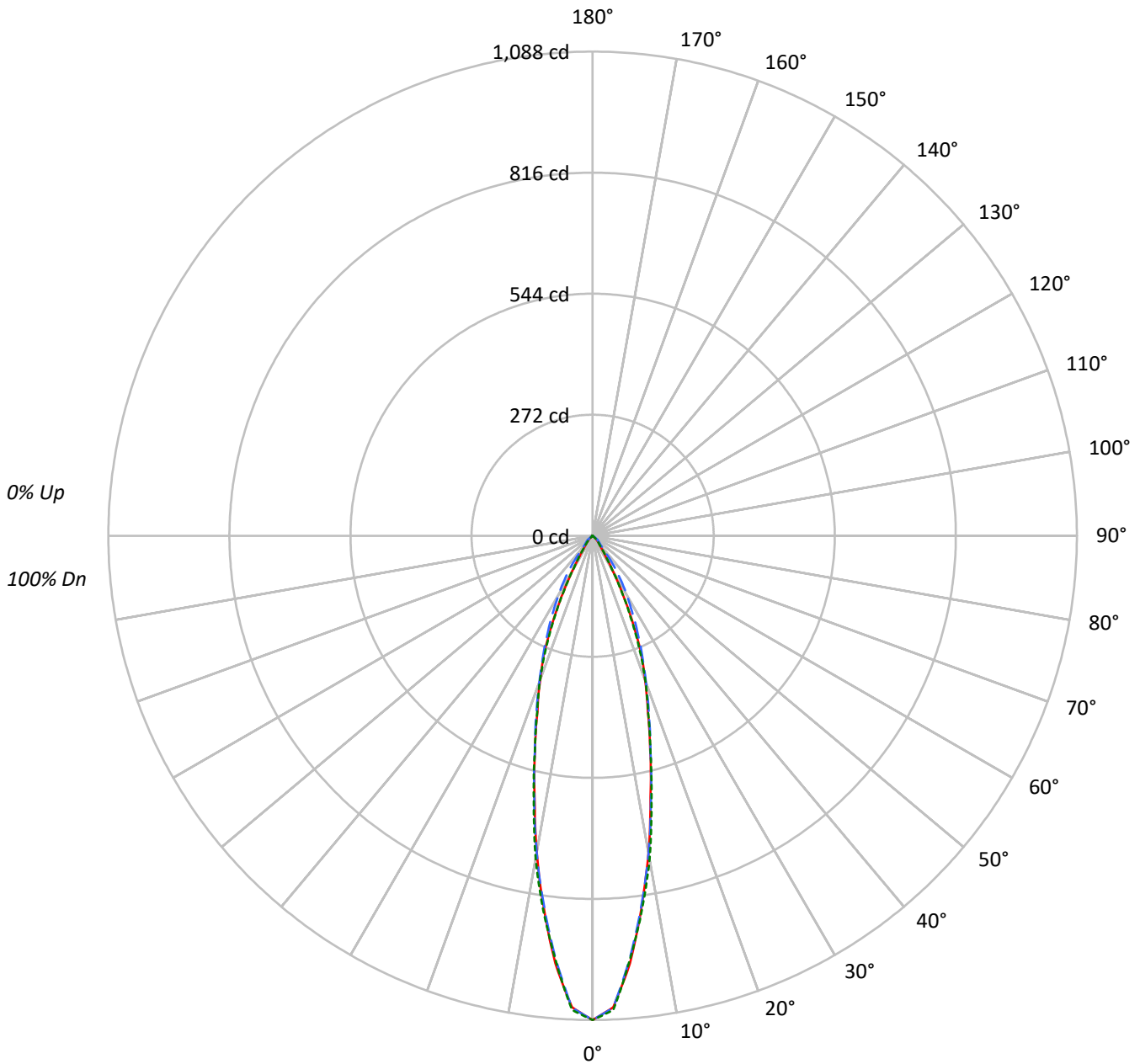
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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					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								
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95								
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91								
3	105	100	96	93	104	99	95	92	96	93	90	94	91	89	92	90	88	86								
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82								
5	97	90	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	78								
6	94	86	81	78	92	86	81	77	84	80	77	83	79	76	82	78	76	75								
7	90	82	77	74	89	82	77	74	81	76	73	80	76	73	79	75	73	72								
8	87	79	74	71	86	78	74	70	77	73	70	77	73	70	76	72	70	69								
9	84	76	71	68	83	75	71	67	74	70	67	74	70	67	73	69	67	66								
10	81	73	68	65	80	72	68	65	72	67	65	71	67	64	70	67	64	63								

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

	0°	45°	90°
0°	421638	421638	421638
5°	375093	371048	372370
10°	284287	284996	290111
15°	200544	201587	201226
20°	142185	143958	142556
25°	88889	101502	86324
30°	39554	68593	38749
35°	16793	39736	17645
40°	10066	15782	10066
45°	5699	10905	4768
50°	543	8380	543
55°	0	1757	608
60°	0	0	0
65°	0	0	0
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: 10905 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.2	22.4
10°-20°	140.3	37.4
20°-30°	101.9	27.2
30°-40°	36.6	9.8
40°-50°	10.7	2.9
50°-60°	1.3	0.4
60°-70°	0.0	0.0
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°	326.4	87.0
0°-40°	363.0	96.8
0°-60°	375.0	100.0
0°-90°	375.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	375.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1088	1088	1088	1088	1088	
5°	964	956	954	962	957	84
15°	500	500	502	496	502	140
25°	208	230	237	223	202	95
35°	36	48	84	48	37	26
45°	10	14	20	14	9	7
55°	0	1	3	1	1	0
65°	0	0	0	0	0	0
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°	1088.1	1088.1	1088.1	1088.1	1088.1
2.5°	1060.4	1057.8	1061.3	1062.2	1066.5
5°	964.3	955.6	953.9	961.7	957.3
7.5°	842.1	843.0	838.6	848.2	849.0
10°	722.5	723.4	724.3	727.7	737.3
12.5°	601.3	603.9	604.7	603.0	610.8
15°	499.9	499.9	502.5	496.4	501.6
17.5°	412.4	415.9	420.2	415.0	414.1
20°	344.8	347.4	349.1	348.3	345.7
22.5°	283.3	288.5	290.2	283.3	273.8
25°	207.9	229.6	237.4	222.7	201.9
27.5°	141.2	170.7	190.6	164.6	139.5
30°	88.4	113.5	153.3	113.5	86.6
32.5°	53.7	71.0	117.8	73.6	56.3
35°	35.5	48.5	84.0	48.5	37.3
37.5°	26.0	33.8	49.4	33.8	26.9
40°	19.9	23.4	31.2	24.3	19.9
42.5°	15.6	18.2	23.4	18.2	14.7
45°	10.4	13.9	19.9	13.9	8.7
47.5°	1.7	7.8	17.3	6.9	4.3
50°	0.9	0.9	13.9	2.6	0.9
52.5°	0.9	0.9	7.8	0.9	0.9
55°	0.0	0.9	2.6	0.9	0.9
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
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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