

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: P886164

Luminaire Tested: ML204LSFL95FS1E-TIR1D40FL-TL2SDMB-468LM-5000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886164
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-97)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D40FL-TL2SDMB-468LM-5000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE BLACK TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 565.6 lumens
Efficiency: N/A
Efficacy: 70.7 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

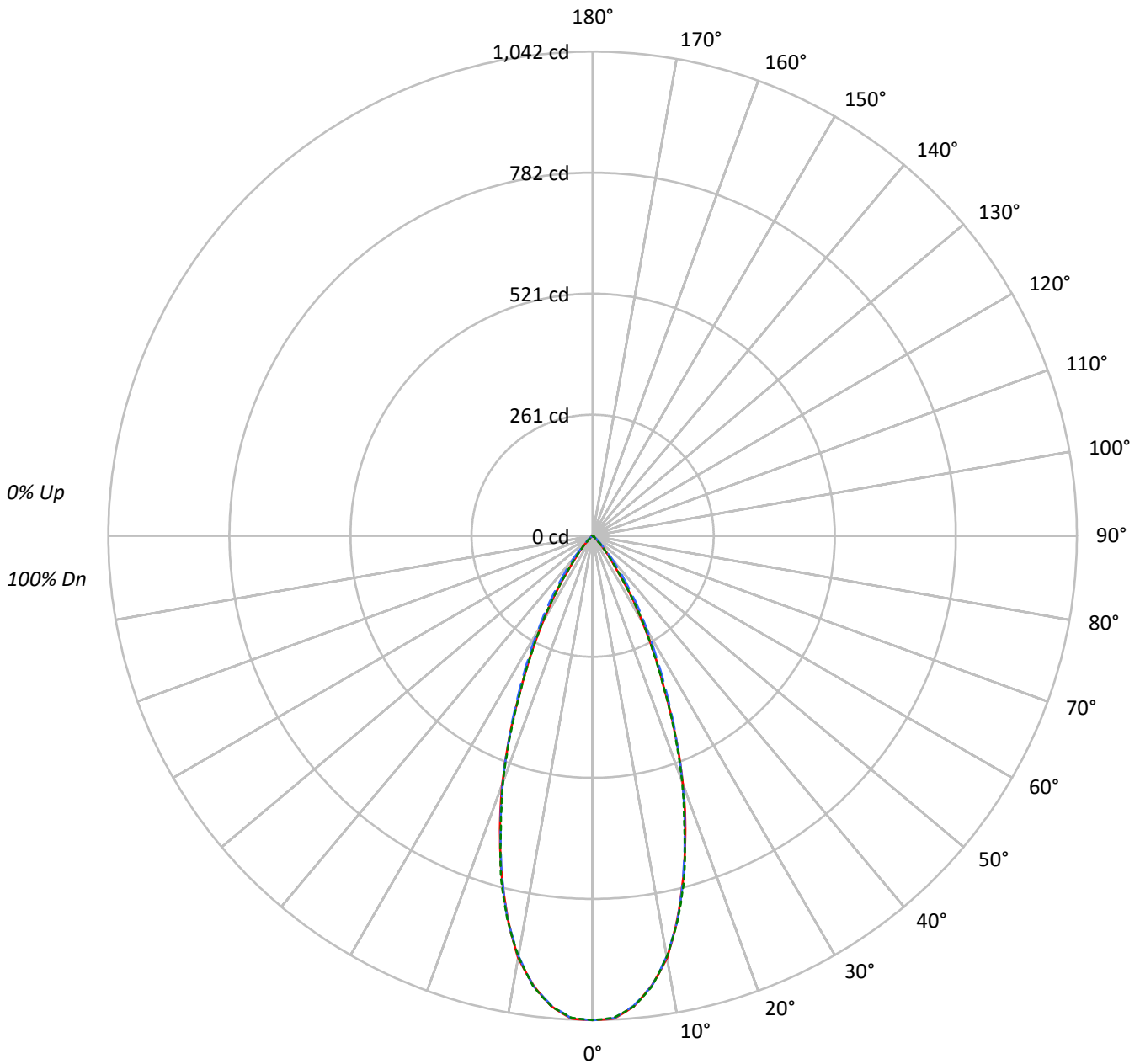
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P886164

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D40FL-TL2SDMB-468LM-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P886164

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D40FL-TL2SDMB-468LM-5000K

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	110	108	106	105	104	102	102	101	99	98	97	97	95					95			
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90					90			
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	90	88	86	85					85			
4	100	94	89	85	98	92	88	84	90	87	83	88	85	83	87	84	82	80					80			
5	96	89	83	80	94	88	83	79	86	82	79	84	81	78	83	80	77	76					76			
6	92	84	79	75	91	83	78	75	82	78	74	81	77	74	79	76	73	72					72			
7	88	80	75	71	87	79	74	71	78	74	70	77	73	70	76	72	70	68					68			
8	85	76	71	67	83	76	71	67	75	70	67	74	70	67	73	69	66	65					65			
9	81	73	67	64	80	72	67	64	71	67	64	71	66	63	70	66	63	62					62			
10	78	69	64	61	77	69	64	61	68	64	61	68	63	61	67	63	60	59					59			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	100973	100973	100973
5°	98889	98704	98889
10°	90736	90353	90451
15°	75811	75711	76393
20°	58546	58340	58041
25°	39143	40501	39047
30°	23860	26265	24296
35°	11294	15209	11637
40°	5299	7879	5046
45°	1603	3206	1603
50°	437	1176	437
55°	169	169	169
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: 3206 cd/sqm



TEST NUMBER: P886164

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D40FL-TL2SDMB-468LM-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.0	16.6
10°-20°	207.7	36.7
20°-30°	172.1	30.4
30°-40°	75.0	13.3
40°-50°	15.7	2.8
50°-60°	1.2	0.2
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°	473.8	83.8
0°-40°	548.7	97.0
0°-60°	565.6	100.0
0°-90°	565.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	565.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1042	1042	1042	1042	1042	
5°	1017	1018	1015	1016	1017	94
15°	756	754	755	759	762	208
25°	366	376	379	371	365	170
35°	96	113	129	112	98	67
45°	12	18	23	18	12	12
55°	1	1	1	1	1	1
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	



TEST NUMBER: P886164

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D40FL-TL2SDMB-468LM-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1042.3	1042.3	1042.3	1042.3	1042.3
2.5°	1040.3	1039.3	1039.3	1039.3	1038.4
5°	1016.9	1017.9	1015.0	1016.0	1016.9
7.5°	976.0	976.0	977.0	978.9	978.0
10°	922.4	918.5	918.5	920.5	919.5
12.5°	843.5	845.5	845.5	849.4	846.5
15°	755.9	753.9	754.9	758.8	761.7
17.5°	663.3	662.4	658.5	659.4	656.5
20°	567.9	565.9	565.9	562.0	563.0
22.5°	466.6	469.5	467.6	468.5	462.7
25°	366.2	376.0	378.9	371.1	365.3
27.5°	285.4	290.3	301.0	293.2	282.5
30°	213.3	223.1	234.8	225.0	217.2
32.5°	154.9	167.5	178.3	169.5	155.9
35°	95.5	113.0	128.6	112.0	98.4
37.5°	62.3	72.1	91.6	71.1	62.3
40°	41.9	45.8	62.3	46.8	39.9
42.5°	25.3	29.2	37.0	30.2	24.4
45°	11.7	17.5	23.4	17.5	11.7
47.5°	4.9	7.8	15.6	6.8	4.9
50°	2.9	3.9	7.8	3.9	2.9
52.5°	1.9	1.9	2.9	1.9	1.9
55°	1.0	1.0	1.0	1.0	1.0
57.5°	0.0	0.0	1.0	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



Report Generated By 670245859 / DESKTOP-T8S5UU9

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)