

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: P886304

Luminaire Tested: ML204LSFL9FS1E-TIR1D25NFL-TL2SDMW-550LM-5000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886304
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-89)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL9FS1E-TIR1D25NFL-TL2SDMW-550LM-5000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 577.0 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.55
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

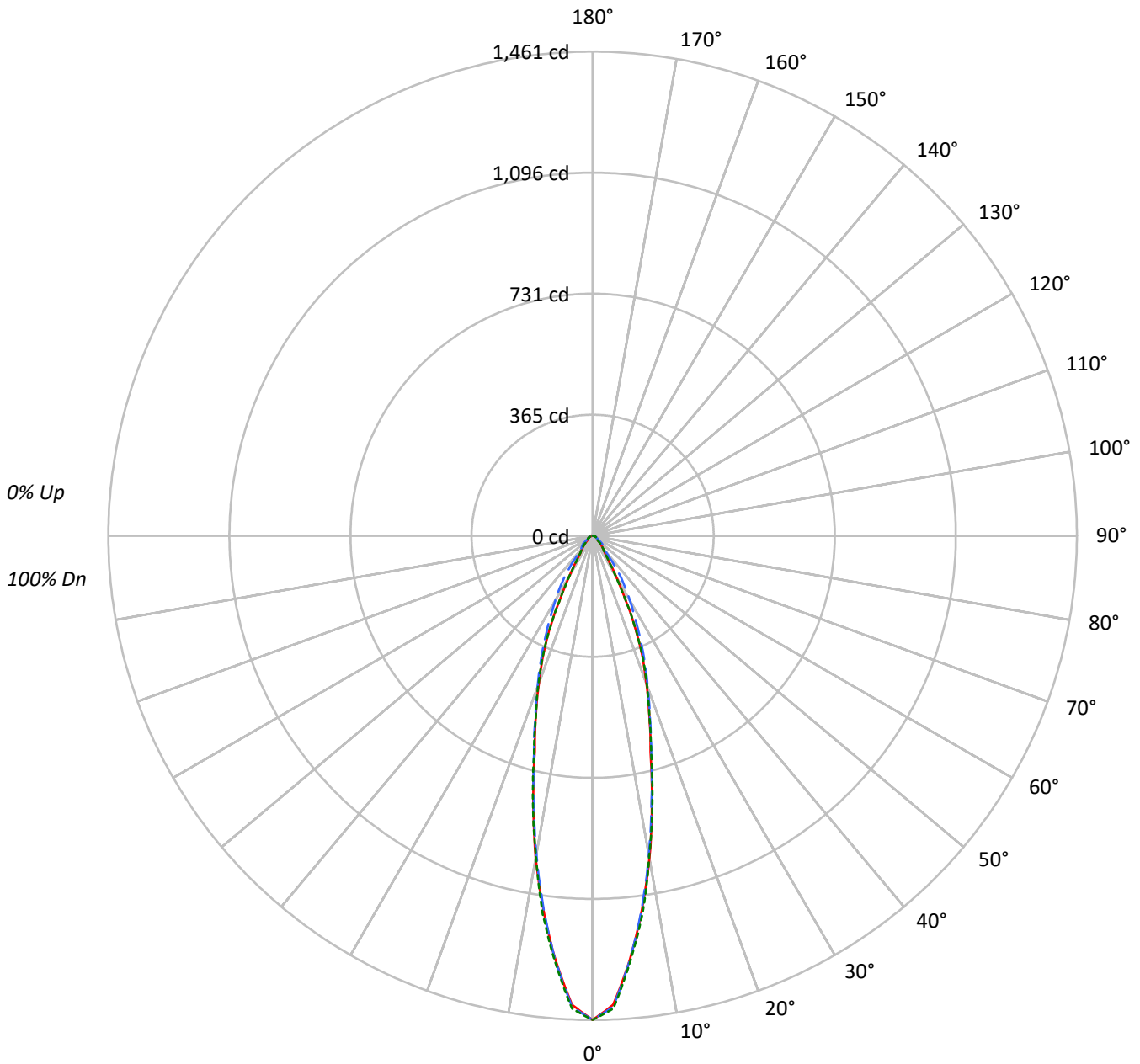
Input Watts (W): 7.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P886304

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D25NFL-TL2SDMW-550LM-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P886304

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D25NFL-TL2SDMW-550LM-5000K

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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	113	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87																			
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	86	83	82																			
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77																			
5	94	86	81	77	92	85	80	76	83	79	76	82	78	75	80	77	74	73																			
6	90	82	76	72	89	81	76	72	79	75	71	78	74	71	77	73	70	69																			
7	86	78	72	68	85	77	72	68	76	71	68	75	70	67	74	70	67	66																			
8	83	74	69	65	82	73	68	65	72	68	64	71	67	64	71	67	64	63																			
9	80	71	65	62	79	70	65	62	69	65	61	69	64	61	68	64	61	60																			
10	77	68	62	59	76	67	62	59	67	62	59	66	62	59	65	61	58	57																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	566059	566059	566059
5°	499955	500422	502678
10°	388677	384585	386867
15°	270388	274119	274119
20°	195545	199834	197442
25°	128182	144087	128182
30°	62419	100362	60316
35°	31316	64855	30796
40°	23522	28783	23522
45°	18468	24825	17810
50°	11936	22426	11936
55°	11755	12566	11755
60°	11702	11702	11702
65°	10636	10636	10636
70°	9177	10537	9177
75°	8684	8684	8684
80°	7810	7810	7810
85°	5335	5335	5335

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 24825 cd/sqm



TEST NUMBER: P886304

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D25NFL-TL2SDMW-550LM-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.3	19.6
10°-20°	191.6	33.2
20°-30°	145.3	25.2
30°-40°	61.1	10.6
40°-50°	28.8	5.0
50°-60°	16.6	2.9
60°-70°	11.8	2.0
70°-80°	6.3	1.1
80°-90°	2.1	0.4
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°	450.3	78.0
0°-40°	511.4	88.6
0°-60°	556.8	96.5
0°-90°	577.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	577.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1461	1461	1461	1461	1461	
5°	1285	1282	1286	1285	1292	113
15°	674	676	683	682	683	191
25°	300	324	337	324	300	134
35°	66	84	137	82	65	47
45°	34	37	45	37	32	25
55°	17	17	19	17	17	16
65°	12	12	12	12	12	12
75°	6	6	6	6	6	6
85°	1	2	1	2	1	2
90°	0	0	0	0	0	



TEST NUMBER: P886304

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D25NFL-TL2SDMW-550LM-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1460.8	1460.8	1460.8	1460.8	1460.8
2.5°	1416.7	1420.1	1422.5	1428.3	1428.3
5°	1285.3	1281.8	1286.5	1285.3	1292.3
7.5°	1138.9	1140.1	1134.2	1141.2	1151.7
10°	987.8	978.5	977.4	982.0	983.2
12.5°	826.3	821.6	820.5	820.5	832.1
15°	674.0	676.4	683.3	682.2	683.3
17.5°	568.3	575.3	575.3	571.8	568.3
20°	474.2	480.0	484.6	480.0	478.8
22.5°	389.3	403.3	409.1	405.6	391.6
25°	299.8	324.2	337.0	324.2	299.8
27.5°	204.5	245.2	273.1	244.0	204.5
30°	139.5	169.7	224.3	167.3	134.8
32.5°	91.8	115.1	180.1	115.1	93.0
35°	66.2	83.7	137.1	82.5	65.1
37.5°	54.6	65.1	86.0	63.9	54.6
40°	46.5	50.0	56.9	51.1	46.5
42.5°	40.7	43.0	50.0	44.2	40.7
45°	33.7	37.2	45.3	37.2	32.5
47.5°	20.9	29.1	40.7	29.1	20.9
50°	19.8	19.8	37.2	19.8	19.8
52.5°	18.6	18.6	27.9	18.6	18.6
55°	17.4	17.4	18.6	17.4	17.4
57.5°	16.3	16.3	16.3	16.3	16.3
60°	15.1	15.1	15.1	15.1	15.1
62.5°	12.8	13.9	13.9	13.9	12.8
65°	11.6	11.6	11.6	11.6	11.6
67.5°	10.5	10.5	10.5	10.5	10.5
70°	8.1	9.3	9.3	9.3	8.1
72.5°	7.0	7.0	7.0	8.1	7.0
75°	5.8	5.8	5.8	5.8	5.8
77.5°	4.6	4.6	4.6	4.6	4.6
80°	3.5	3.5	3.5	3.5	3.5
82.5°	2.3	3.5	2.3	3.5	2.3
85°	1.2	2.3	1.2	2.3	1.2
87.5°	1.2	1.2	1.2	1.2	1.2
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)