

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: P886318

Luminaire Tested: ML204LSFL9FS1E-TIR1D25NFL-TL2SDSLB-550LM-4000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886318
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-93)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL9FS1E-TIR1D25NFL-TL2SDSLB-550LM-4000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

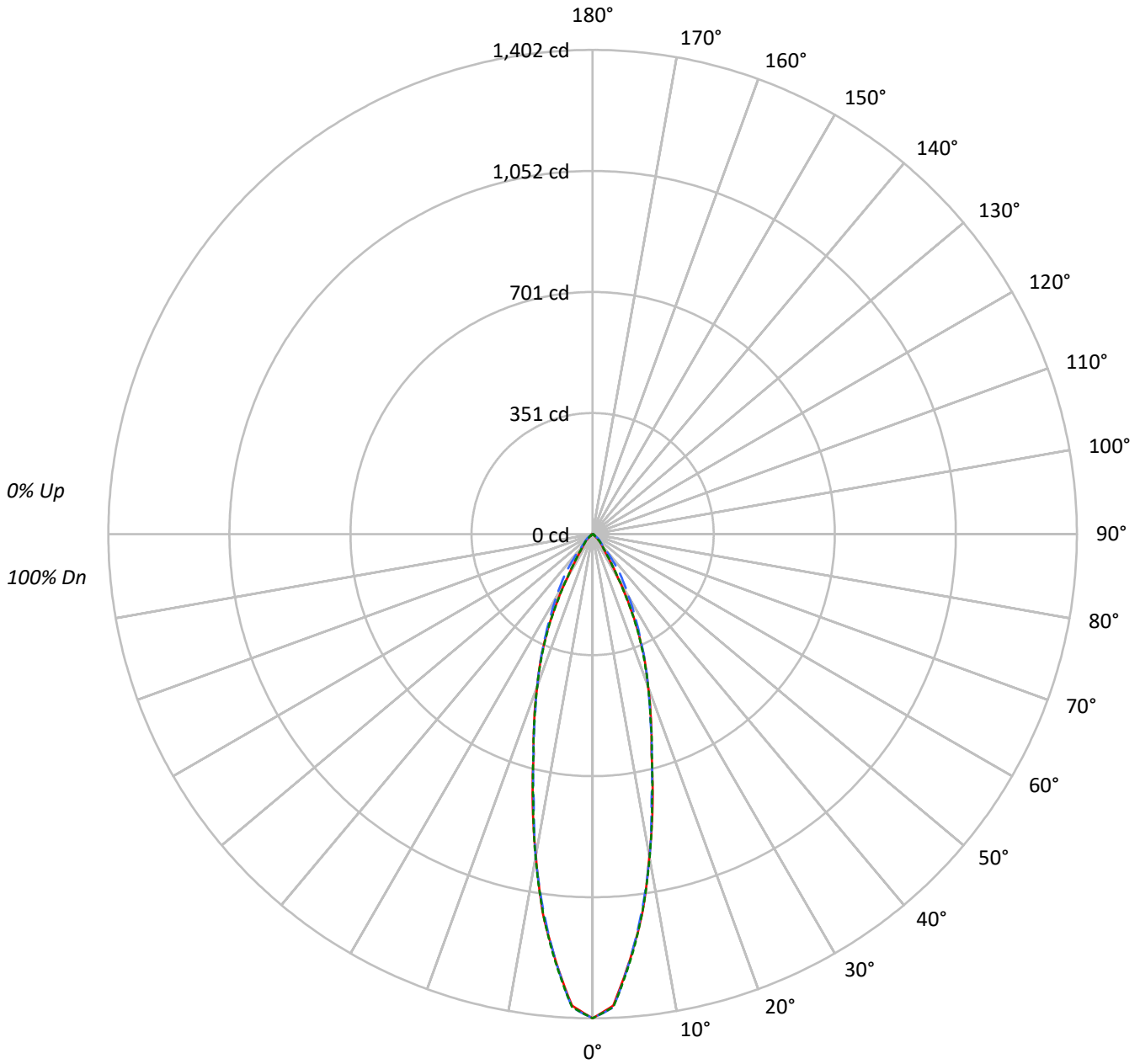
Lumens per Lamp: N/A
Luminaire Lumens: 529.4 lumens
Efficiency: N/A
Efficacy: 67.0 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.55
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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: P886318
CATALOG NUMBER: ML204LSFL9FS1E-TIR1D25NFL-TL2SDSLB-550LM-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P886318

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D25NFL-TL2SDSLB-550LM-4000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	543274	543274	543274
5°	481323	481323	483463
10°	372544	373410	374276
15°	264170	265494	265494
20°	193607	193153	193607
25°	132714	136990	131303
30°	66222	93427	66714
35°	30843	61686	32924
40°	20689	27923	20689
45°	13919	17536	13317
50°	5305	13986	5305
55°	3716	4459	3716
60°	2557	1705	2557
65°	2017	1009	2017
70°	1246	1246	1246
75°	1647	1647	1647
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 17536 cd/sqm



TEST NUMBER: P886318

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D25NFL-TL2SDSLB-550LM-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.3	20.7
10°-20°	186.0	35.1
20°-30°	143.9	27.2
30°-40°	60.5	11.4
40°-50°	21.3	4.0
50°-60°	5.6	1.1
60°-70°	1.9	0.4
70°-80°	0.9	0.2
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°	439.2	83.0
0°-40°	499.7	94.4
0°-60°	526.6	99.5
0°-90°	529.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	529.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1402	1402	1402	1402	1402	
5°	1237	1243	1237	1240	1243	109
15°	658	663	662	664	662	187
25°	310	320	320	319	307	139
35°	65	82	130	83	70	47
45°	25	28	32	26	24	18
55°	6	4	7	4	6	5
65°	2	2	1	2	2	2
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P886318

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D25NFL-TL2SDSLB-550LM-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1402.0	1402.0	1402.0	1402.0	1402.0
2.5°	1366.6	1364.4	1372.2	1372.2	1371.1
5°	1237.4	1242.9	1237.4	1239.6	1242.9
7.5°	1105.9	1101.5	1097.1	1098.2	1104.8
10°	946.8	946.8	949.0	949.0	951.2
12.5°	802.1	788.8	787.7	795.5	795.5
15°	658.5	662.9	661.8	664.0	661.8
17.5°	561.2	555.7	554.6	559.0	557.9
20°	469.5	471.8	468.4	470.6	469.5
22.5°	392.2	391.1	392.2	393.3	385.6
25°	310.4	320.4	320.4	319.3	307.1
27.5°	225.4	249.7	259.6	245.3	222.1
30°	148.0	181.2	208.8	179.0	149.1
32.5°	98.3	120.4	167.9	121.5	100.5
35°	65.2	81.8	130.4	82.9	69.6
37.5°	49.7	59.7	90.6	58.6	50.8
40°	40.9	43.1	55.2	44.2	40.9
42.5°	33.1	34.2	38.7	34.2	33.1
45°	25.4	27.6	32.0	26.5	24.3
47.5°	12.2	18.8	27.6	17.7	15.5
50°	8.8	7.7	23.2	11.0	8.8
52.5°	6.6	5.5	16.6	5.5	6.6
55°	5.5	4.4	6.6	4.4	5.5
57.5°	4.4	3.3	3.3	3.3	4.4
60°	3.3	3.3	2.2	3.3	3.3
62.5°	3.3	2.2	2.2	2.2	3.3
65°	2.2	2.2	1.1	2.2	2.2
67.5°	2.2	1.1	1.1	1.1	2.2
70°	1.1	1.1	1.1	1.1	1.1
72.5°	1.1	1.1	1.1	1.1	1.1
75°	1.1	1.1	1.1	1.1	1.1
77.5°	1.1	1.1	0.0	1.1	1.1
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)