

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: P886439

Luminaire Tested: ML204LSFL9FS1E-TIR1D55WFL-TL2SDSLB-550LM-5000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886439
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-105)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL9FS1E-TIR1D55WFL-TL2SDSLB-550LM-5000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 666.6 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.86 / 0.82
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

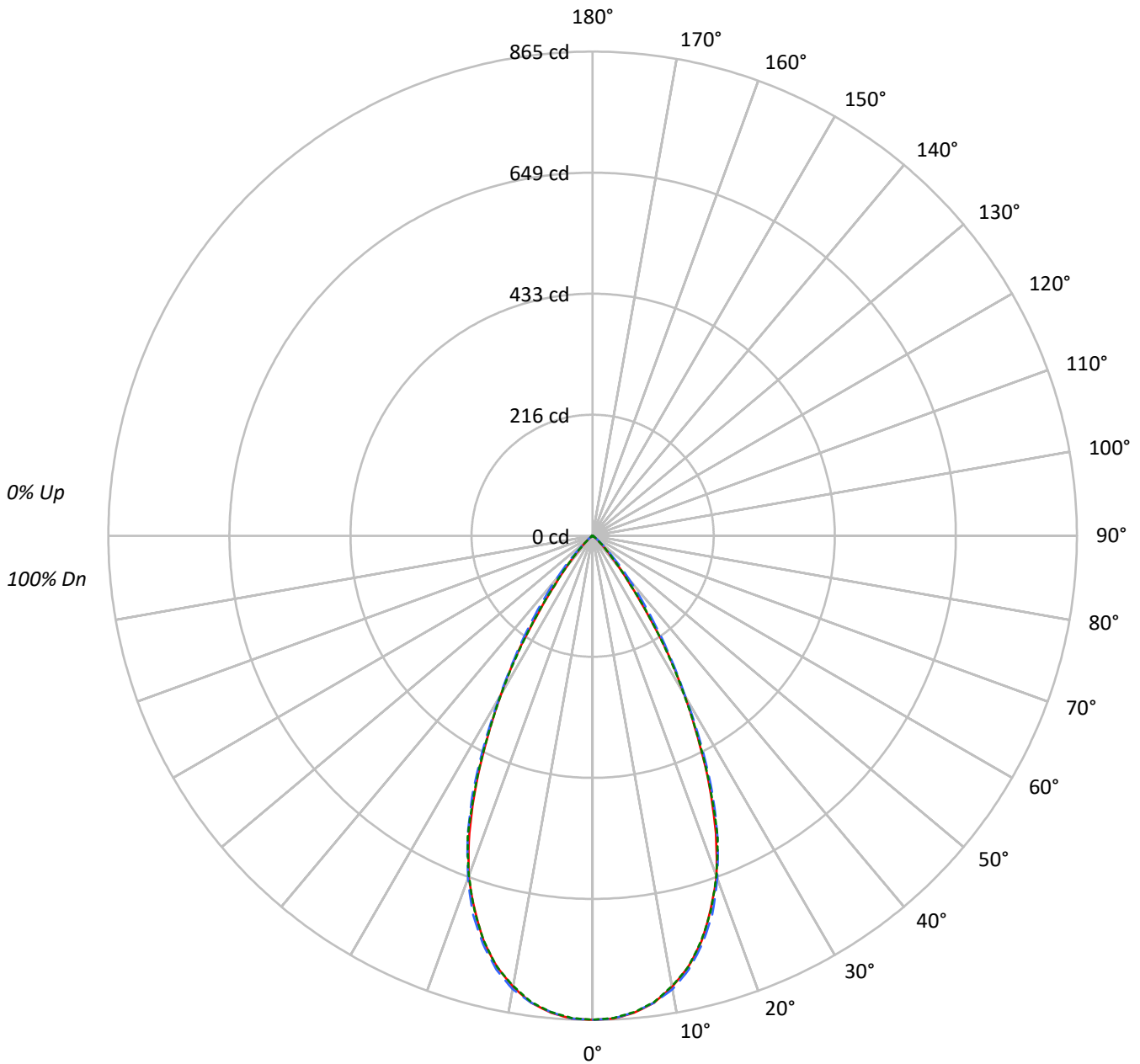
Input Watts (W): 7.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P886439

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D55WFL-TL2SDSLB-550LM-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P886439

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D55WFL-TL2SDSLB-550LM-5000K

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	100	100	100	100	100		
	1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94	94	94	94	94		
	2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88	88	88	88	88	88		
	3	103	97	93	89	101	96	92	88	93	90	87	91	88	85	89	86	84	82	82	82	82	82	82		
	4	98	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77	77	77	77	77	77		
	5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	72	72	72	72	72	72		
	6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68	68	68	68	68	68		
	7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64	64	64	64	64	64		
	8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	60	60	60	60	60	60		
	9	78	68	63	59	77	68	63	59	67	62	59	66	62	59	65	61	58	57	57	57	57	57	57		
	10	74	65	59	56	73	65	59	56	64	59	56	63	59	55	62	58	55	54	54	54	54	54	54		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	335032	335032	335032
5°	332694	332227	332227
10°	321904	323714	321432
15°	301157	303003	300676
20°	266926	268328	266431
25°	211171	216131	212154
30°	146091	148194	145599
35°	80797	92907	82453
40°	36421	50534	37028
45°	15289	20386	15947
50°	6330	7716	6330
55°	2365	3108	2365
60°	930	930	930
65°	1100	1100	1100
70°	1360	0	1360
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 20386 cd/sqm



TEST NUMBER: P886439

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D55WFL-TL2SDSLB-550LM-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.5	12.1
10°-20°	208.8	31.3
20°-30°	225.1	33.8
30°-40°	118.5	17.8
40°-50°	28.3	4.2
50°-60°	4.3	0.6
60°-70°	1.1	0.2
70°-80°	0.1	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°	514.4	77.2
0°-40°	632.9	94.9
0°-60°	665.4	99.8
0°-90°	666.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	666.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	865	865	865	865	865	
5°	855	855	854	854	854	80
15°	751	751	755	751	750	208
25°	494	498	506	500	496	223
35°	171	187	196	186	174	112
45°	28	30	37	30	29	25
55°	4	4	5	4	4	4
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	



TEST NUMBER: P886439

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D55WFL-TL2SDSLB-550LM-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	864.6	864.6	864.6	864.6	864.6
2.5°	863.4	863.4	863.4	862.2	862.2
5°	855.3	855.3	854.1	854.1	854.1
7.5°	841.3	842.5	841.3	840.2	840.2
10°	818.1	820.4	822.7	821.6	816.9
12.5°	789.0	789.0	793.7	789.0	789.0
15°	750.7	750.7	755.3	750.7	749.5
17.5°	700.7	704.2	710.0	704.2	701.9
20°	647.3	647.3	650.7	650.7	646.1
22.5°	575.2	579.9	583.4	582.2	583.4
25°	493.9	498.5	505.5	499.7	496.2
27.5°	406.7	411.4	417.2	416.0	409.0
30°	326.5	332.3	331.2	330.0	325.4
32.5°	253.3	258.0	259.1	256.8	249.8
35°	170.8	187.1	196.4	185.9	174.3
37.5°	110.4	124.3	142.9	125.5	111.6
40°	72.0	76.7	99.9	81.3	73.2
42.5°	45.3	50.0	66.2	50.0	46.5
45°	27.9	30.2	37.2	30.2	29.1
47.5°	16.3	17.4	22.1	17.4	17.4
50°	10.5	10.5	12.8	10.5	10.5
52.5°	5.8	7.0	8.1	7.0	7.0
55°	3.5	3.5	4.6	3.5	3.5
57.5°	2.3	2.3	2.3	2.3	2.3
60°	1.2	1.2	1.2	1.2	1.2
62.5°	1.2	1.2	1.2	1.2	1.2
65°	1.2	1.2	1.2	1.2	1.2
67.5°	1.2	1.2	1.2	1.2	1.2
70°	1.2	0.0	0.0	0.0	1.2
72.5°	1.2	0.0	0.0	0.0	1.2
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)