

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: P886376

Luminaire Tested: ML204LSFL9FS1E-TIR1D40FL-TL2SDSLB-550LM-3000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886376
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-99)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL9FS1E-TIR1D40FL-TL2SDSLB-550LM-3000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 622.0 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

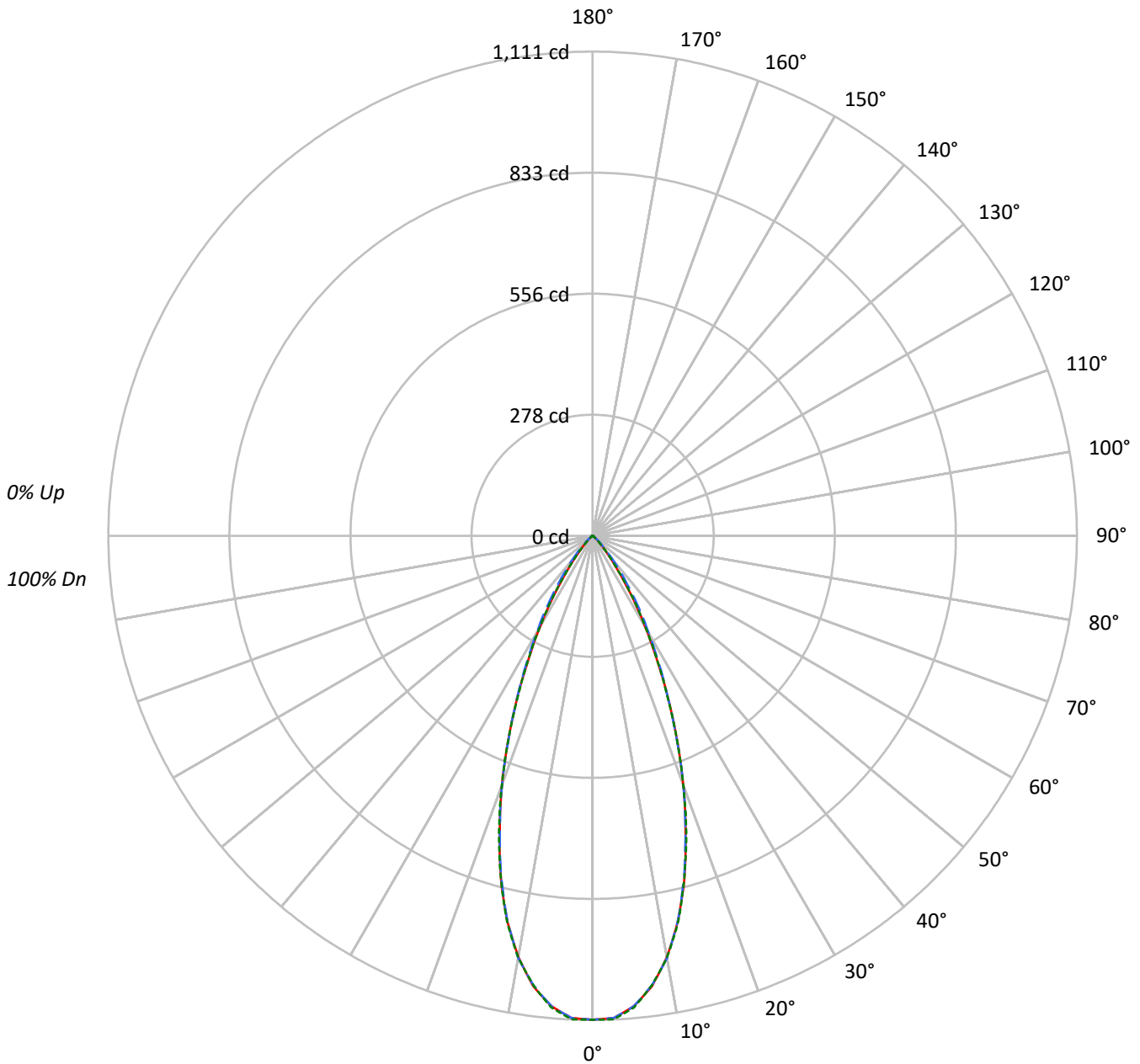
Input Watts (W): 7.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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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	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	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89
3	104	99	94	91	102	97	93	90	95	91	88	92	89	87	90	88	86	84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80
5	95	88	83	79	94	87	82	79	85	81	78	84	80	77	82	79	77	75
6	91	83	78	74	90	83	78	74	81	77	74	80	76	73	79	75	73	71
7	88	79	74	70	86	79	74	70	77	73	70	76	72	69	75	72	69	68
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61
10	77	69	63	60	76	68	63	60	67	63	60	67	63	60	66	62	59	58

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	430357	430357	430357
5°	421576	421576	422782
10°	386198	386985	386591
15°	326592	324947	326190
20°	250926	250926	250926
25°	174487	174487	172734
30°	108192	114636	108640
35°	55205	68923	57192
40°	25090	37129	26152
45°	10193	15837	10193
50°	3738	7475	3738
55°	2094	2094	2094
60°	775	775	775
65°	917	917	917
70°	1133	0	1133
75°	1497	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 15837 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	16.1
10°-20°	222.9	35.8
20°-30°	187.6	30.2
30°-40°	86.3	13.9
40°-50°	20.7	3.3
50°-60°	3.1	0.5
60°-70°	1.0	0.2
70°-80°	0.2	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°	510.8	82.1
0°-40°	597.1	96.0
0°-60°	620.9	99.8
0°-90°	622.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	622.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1111	1111	1111	1111	1111	
5°	1084	1085	1084	1085	1087	100
15°	814	816	810	810	813	223
25°	408	409	408	409	404	186
35°	117	133	146	134	121	79
45°	19	23	29	24	19	17
55°	3	3	3	3	3	3
65°	1	1	1	1	1	1
75°	1	0	0	0	0	1
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°	1110.6	1110.6	1110.6	1110.6	1110.6
2.5°	1107.5	1106.5	1107.5	1108.6	1110.6
5°	1083.8	1084.8	1083.8	1084.8	1086.9
7.5°	1042.4	1043.5	1040.4	1041.4	1040.4
10°	981.5	983.5	983.5	983.5	982.5
12.5°	905.0	905.0	904.0	900.9	907.1
15°	814.1	816.2	810.0	810.0	813.1
17.5°	708.7	709.8	707.7	713.9	714.9
20°	608.5	609.6	608.5	607.5	608.5
22.5°	504.2	508.3	503.1	510.4	505.2
25°	408.1	409.1	408.1	409.1	404.0
27.5°	316.1	318.2	327.5	322.3	318.2
30°	241.8	246.9	256.2	246.9	242.8
32.5°	175.6	188.0	198.4	191.1	178.7
35°	116.7	133.3	145.7	134.3	120.9
37.5°	77.5	85.8	104.3	87.8	78.5
40°	49.6	55.8	73.4	56.8	51.7
42.5°	33.1	37.2	47.5	38.2	34.1
45°	18.6	22.7	28.9	23.8	18.6
47.5°	9.3	12.4	19.6	12.4	9.3
50°	6.2	6.2	12.4	6.2	6.2
52.5°	4.1	4.1	6.2	4.1	4.1
55°	3.1	3.1	3.1	3.1	3.1
57.5°	2.1	2.1	2.1	2.1	2.1
60°	1.0	1.0	1.0	1.0	1.0
62.5°	1.0	1.0	1.0	1.0	1.0
65°	1.0	1.0	1.0	1.0	1.0
67.5°	1.0	1.0	1.0	1.0	1.0
70°	1.0	1.0	0.0	1.0	1.0
72.5°	1.0	0.0	0.0	0.0	1.0
75°	1.0	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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