

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: P886436

Luminaire Tested: ML204LSFL9FS1E-TIR1D55WFL-TL2SDSLB-550LM-3000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886436
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-3000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D 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: 592.7 lumens
Efficiency: N/A
Efficacy: 75.0 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

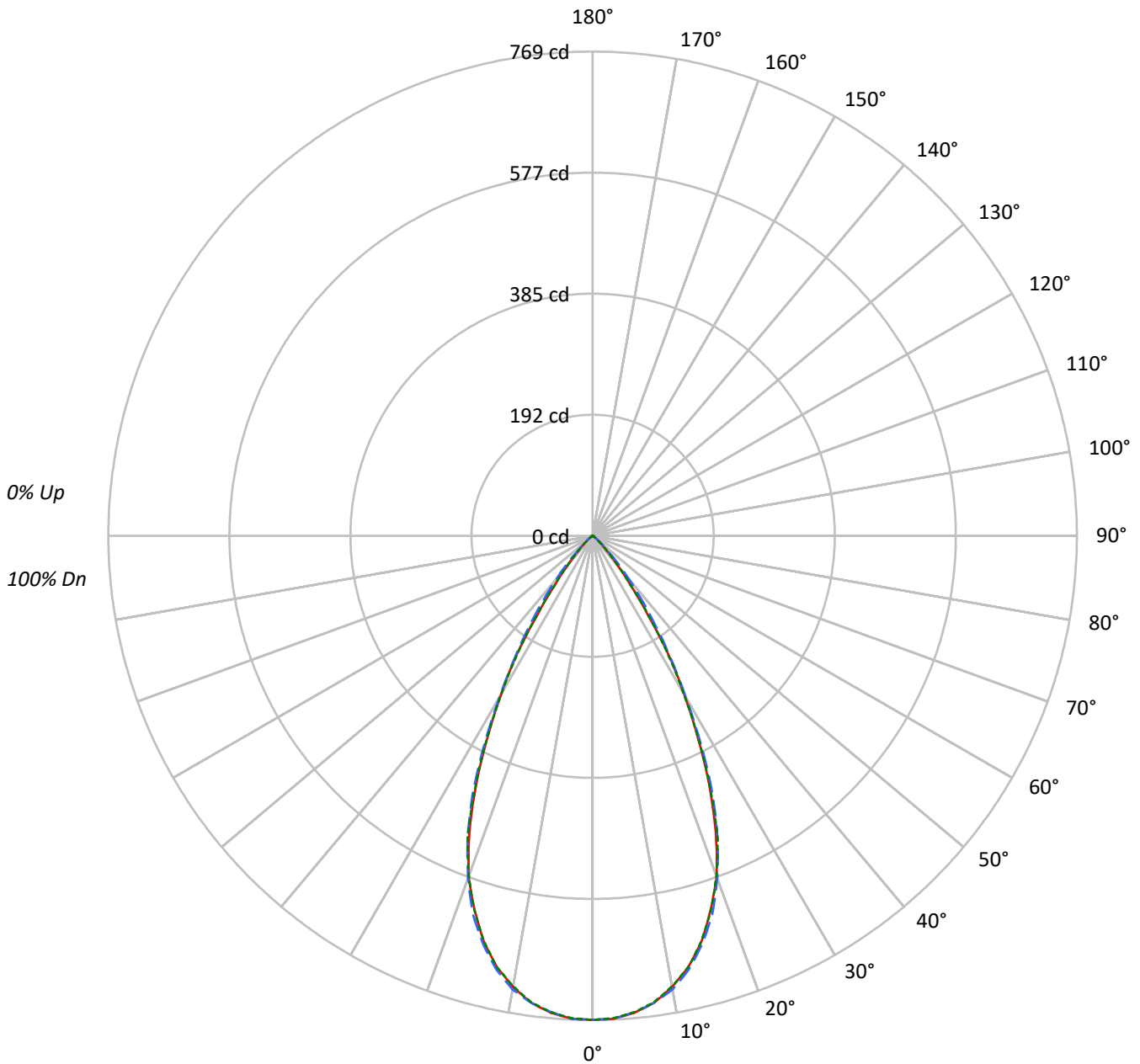
Input Watts (W): 7.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
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	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94		
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88		
3	103	97	93	89	101	96	92	88	93	90	87	91	88	85	89	86	84	82		
4	98	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77		
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	72		
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68		
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64		
8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	60		
9	78	68	63	59	77	68	63	59	67	62	59	66	62	59	65	61	58	57		
10	74	65	59	56	73	65	59	56	64	59	56	63	59	55	62	58	55	54		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	297910	297910	297910
5°	295819	295430	295430
10°	286255	287868	285822
15°	267780	269465	267379
20°	237359	238638	236906
25°	187784	192187	188639
30°	129938	131773	129446
35°	71856	82594	73323
40°	32425	44970	32930
45°	13591	18139	14139
50°	5606	6872	5606
55°	2094	2770	2094
60°	775	775	775
65°	917	917	917
70°	1133	0	1133
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 18139 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.6	12.1
10°-20°	185.7	31.3
20°-30°	200.2	33.8
30°-40°	105.4	17.8
40°-50°	25.1	4.2
50°-60°	3.8	0.6
60°-70°	0.9	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°	457.4	77.2
0°-40°	562.8	95.0
0°-60°	591.7	99.8
0°-90°	592.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	592.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	769	769	769	769	769	
5°	760	760	760	760	760	72
15°	668	668	672	668	666	185
25°	439	443	450	444	441	198
35°	152	166	175	165	155	100
45°	25	27	33	27	26	22
55°	3	3	4	3	3	3
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	768.8	768.8	768.8	768.8	768.8
2.5°	767.8	767.8	767.8	766.7	766.7
5°	760.5	760.5	759.5	759.5	759.5
7.5°	748.1	749.2	748.1	747.1	747.1
10°	727.5	729.5	731.6	730.6	726.4
12.5°	701.6	701.6	705.8	701.6	701.6
15°	667.5	667.5	671.7	667.5	666.5
17.5°	623.1	626.2	631.4	626.2	624.1
20°	575.6	575.6	578.7	578.7	574.5
22.5°	511.5	515.6	518.7	517.7	518.7
25°	439.2	443.3	449.5	444.3	441.2
27.5°	361.7	365.8	371.0	369.9	363.7
30°	290.4	295.5	294.5	293.5	289.3
32.5°	225.3	229.4	230.4	228.4	222.2
35°	151.9	166.4	174.6	165.3	155.0
37.5°	98.2	110.6	127.1	111.6	99.2
40°	64.1	68.2	88.9	72.3	65.1
42.5°	40.3	44.4	58.9	44.4	41.3
45°	24.8	26.9	33.1	26.9	25.8
47.5°	14.5	15.5	19.6	15.5	15.5
50°	9.3	9.3	11.4	9.3	9.3
52.5°	5.2	6.2	7.2	6.2	6.2
55°	3.1	3.1	4.1	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	0.0	0.0	0.0	1.0
72.5°	1.0	0.0	0.0	0.0	1.0
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



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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