

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: P886431

Luminaire Tested: ML204LSFL9FS1E-TIR1D55WFL-TL2SDSL-550LM-3000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886431
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-102)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL9FS1E-TIR1D55WFL-TL2SDSL-550LM-3000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 596.8 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.82
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

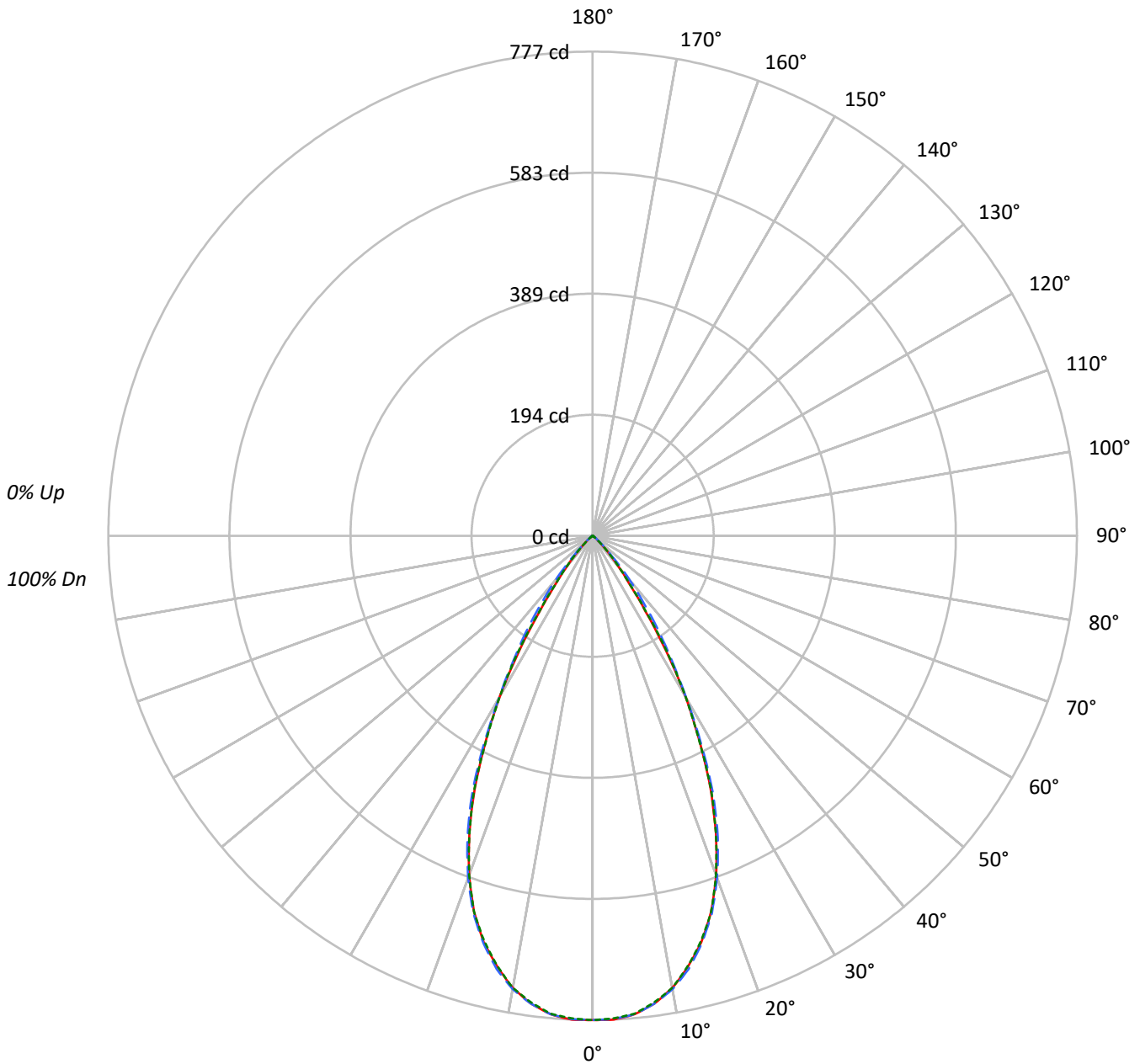
Input Watts (W): 7.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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					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	109	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	83	83	83	83	83	83		
	4	99	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	73	73	73	73	73	73		
	6	90	81	75	71	88	80	75	71	79	74	71	77	73	70	76	73	70	68	68	68	68	68	68		
	7	85	77	71	67	84	76	71	67	75	70	66	73	69	66	72	69	66	64	64	64	64	64	64		
	8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	61	61	61	61	61	61		
	9	78	69	63	59	77	68	63	59	67	62	59	66	62	59	66	62	59	57	57	57	57	57	57		
	10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	63	58	55	54	54	54	54	54	54		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	301165	301165	301165
5°	299903	299903	299514
10°	289953	290740	289953
15°	270749	271551	269906
20°	239091	240782	238679
25°	191332	195736	192230
30°	133160	134099	133160
35°	69917	85054	71856
40°	32930	46538	33436
45°	13043	16988	13043
50°	4340	5606	4340
55°	1419	2770	1419
60°	775	775	775
65°	917	0	917
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 16988 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.5	12.1
10°-20°	187.5	31.4
20°-30°	202.9	34.0
30°-40°	105.9	17.7
40°-50°	24.3	4.1
50°-60°	3.1	0.5
60°-70°	0.6	0.1
70°-80°	0.0	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°	462.9	77.6
0°-40°	568.7	95.3
0°-60°	596.2	99.9
0°-90°	596.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	596.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	777	777	777	777	777	
5°	771	770	771	770	770	72
15°	675	675	677	675	673	187
25°	448	452	458	451	450	201
35°	148	166	180	167	152	98
45°	24	26	31	26	24	22
55°	2	3	4	3	2	2
65°	1	1	0	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°	777.2	777.2	777.2	777.2	777.2
2.5°	777.2	777.2	776.2	777.2	775.1
5°	771.0	770.0	771.0	770.0	770.0
7.5°	757.6	757.6	757.6	756.5	755.5
10°	736.9	737.9	738.9	737.9	736.9
12.5°	707.9	707.9	712.1	706.9	706.9
15°	674.9	674.9	676.9	674.9	672.8
17.5°	632.5	633.5	635.6	631.5	632.5
20°	579.8	580.8	583.9	581.9	578.8
22.5°	516.7	520.9	525.0	526.0	516.7
25°	447.5	451.6	457.8	450.6	449.6
27.5°	371.0	372.1	378.3	374.1	369.0
30°	297.6	297.6	299.7	296.6	297.6
32.5°	220.1	232.5	234.6	232.5	225.3
35°	147.8	166.4	179.8	167.4	151.9
37.5°	95.1	106.4	130.2	107.5	96.1
40°	65.1	68.2	92.0	68.2	66.1
42.5°	41.3	44.4	55.8	44.4	41.3
45°	23.8	25.8	31.0	25.8	23.8
47.5°	13.4	14.5	17.6	14.5	14.5
50°	7.2	8.3	9.3	8.3	7.2
52.5°	4.1	5.2	6.2	5.2	4.1
55°	2.1	3.1	4.1	3.1	2.1
57.5°	1.0	1.0	2.1	1.0	1.0
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	0.0	1.0	1.0
67.5°	0.0	1.0	0.0	0.0	1.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
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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