

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: P885791

Luminaire Tested: ML104LSFL95FS1E-TIR1D55WFL-TL1SDSL-340LM-4000K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885791
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-149)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D55WFL-TL1SDSL-340LM-4000K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 418.1 lumens
Efficiency: N/A
Efficacy: 68.5 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.83 / 0.8
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

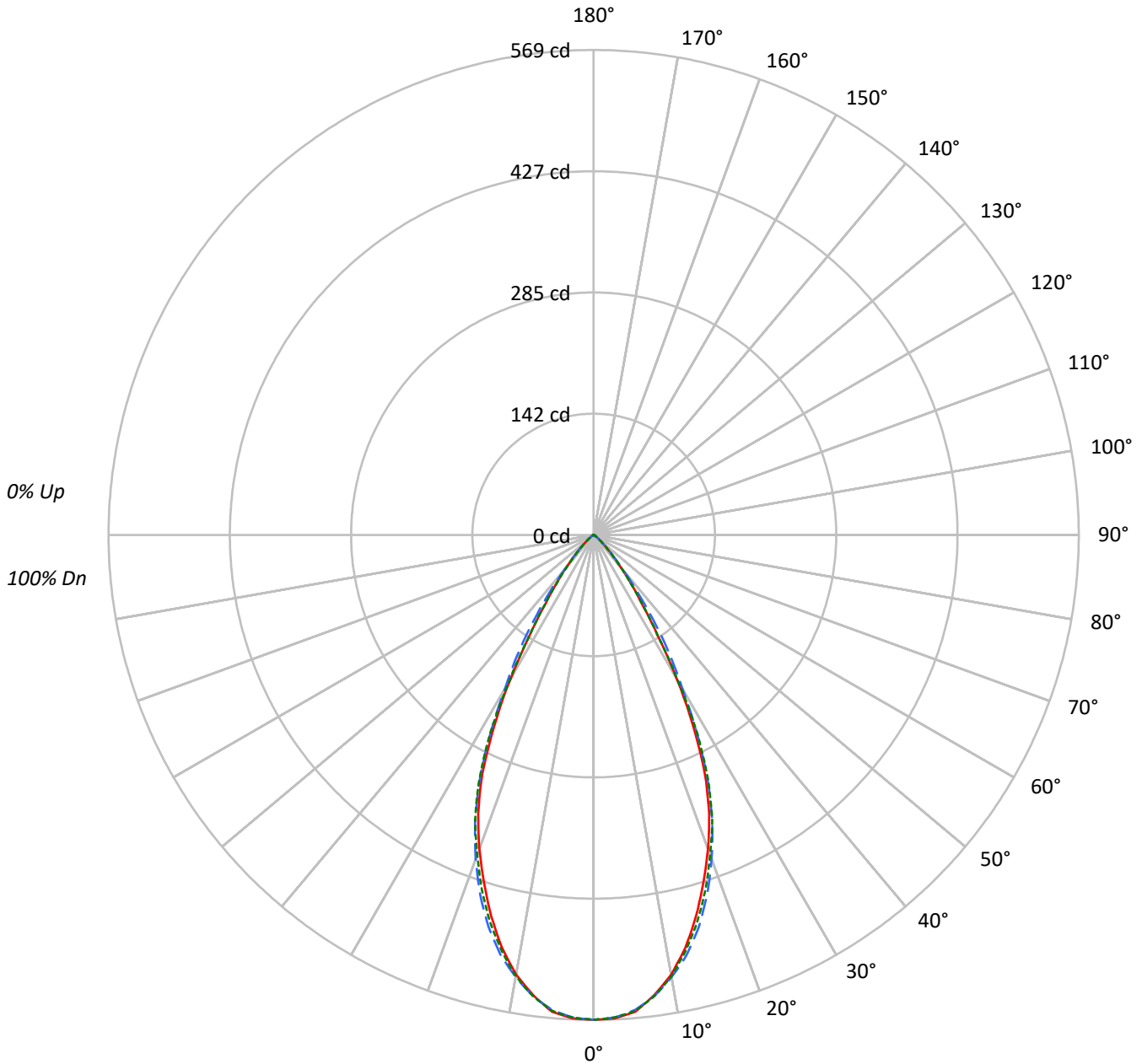
Input Watts (W): 6.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	881804	881804	881804
5°	873659	870391	871947
10°	824109	828988	827414
15°	743776	764156	753886
20°	646436	667220	658642
25°	527955	540440	544032
30°	348833	371384	354560
35°	185438	231229	189411
40°	100158	108657	98135
45°	48444	48444	46252
50°	22908	17844	22908
55°	11350	8648	11350
60°	6510	3410	6510
65°	4034	4034	4034
70°	4985	4985	4985
75°	6588	0	6588
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 48444 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.3	12.5
10°-20°	130.8	31.3
20°-30°	140.8	33.7
30°-40°	70.3	16.8
40°-50°	18.4	4.4
50°-60°	3.7	0.9
60°-70°	1.2	0.3
70°-80°	0.4	0.1
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°	324.0	77.5
0°-40°	394.3	94.3
0°-60°	416.4	99.6
0°-90°	418.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	418.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	569	569	569	569	569	
5°	562	558	559	560	560	52
15°	464	468	476	473	470	129
25°	309	313	316	319	318	137
35°	98	105	122	105	100	66
45°	22	21	22	21	21	19
55°	4	3	3	4	4	4
65°	1	1	1	1	1	1
75°	1	0	0	0	1	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°	568.9	568.9	568.9	568.9	568.9
2.5°	567.8	566.8	566.8	567.8	566.8
5°	561.5	558.3	559.4	560.4	560.4
7.5°	544.6	544.6	545.7	546.7	545.7
10°	523.6	524.6	526.7	527.8	525.7
12.5°	496.2	498.3	504.6	502.5	499.3
15°	463.5	467.7	476.2	473.0	469.8
17.5°	427.7	434.0	442.5	440.3	436.1
20°	391.9	396.1	404.5	404.5	399.3
22.5°	354.0	358.2	363.4	365.5	363.4
25°	308.7	312.9	316.0	319.2	318.1
27.5°	252.8	260.2	262.3	265.5	263.4
30°	194.9	201.2	207.5	206.5	198.1
32.5°	139.1	146.4	165.4	151.7	140.1
35°	98.0	105.3	122.2	105.3	100.1
37.5°	71.6	70.6	83.2	71.6	70.6
40°	49.5	50.6	53.7	49.5	48.5
42.5°	33.7	32.7	34.8	33.7	32.7
45°	22.1	21.1	22.1	21.1	21.1
47.5°	13.7	12.6	12.6	12.6	13.7
50°	9.5	8.4	7.4	8.4	9.5
52.5°	6.3	5.3	5.3	5.3	6.3
55°	4.2	3.2	3.2	4.2	4.2
57.5°	3.2	2.1	2.1	2.1	3.2
60°	2.1	2.1	1.1	2.1	2.1
62.5°	2.1	1.1	1.1	1.1	2.1
65°	1.1	1.1	1.1	1.1	1.1
67.5°	1.1	1.1	1.1	1.1	1.1
70°	1.1	1.1	1.1	1.1	1.1
72.5°	1.1	1.1	0.0	1.1	1.1
75°	1.1	0.0	0.0	0.0	1.1
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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