

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: P885789

Luminaire Tested: ML104LSFL95FS1E-TIR1D55WFL-TL1SDSL-340LM-3000K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885789
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-3000K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 371.2 lumens
Efficiency: N/A
Efficacy: 60.9 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

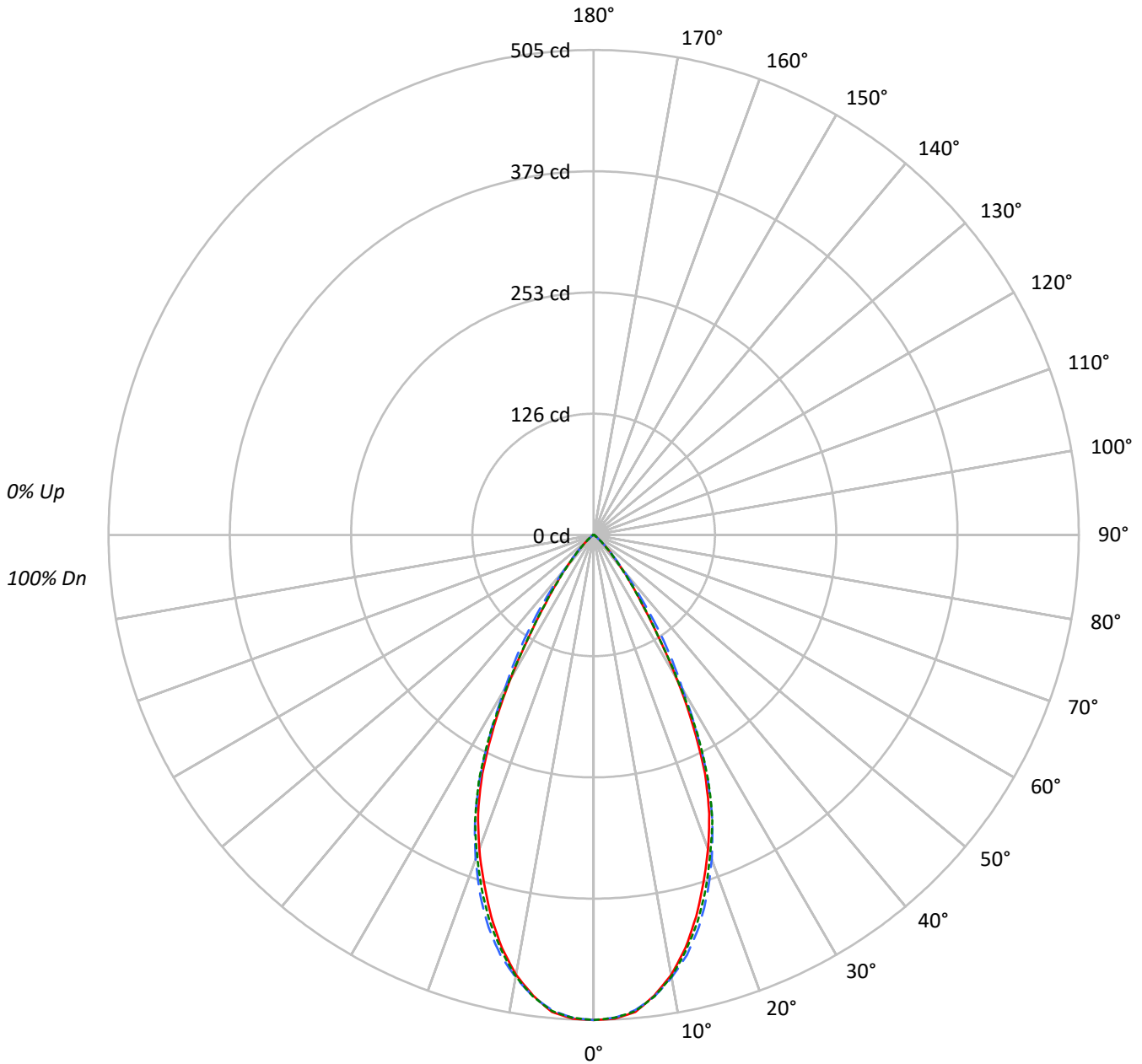
Input Watts (W): 6.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
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	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	70	68		
7	85	76	71	67	84	76	70	67	75	70	66	73	69	66	72	68	66	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°	783068	783068	783068
5°	775790	772989	774390
10°	731876	736283	734709
15°	660492	678625	669479
20°	574023	592498	584910
25°	468781	480068	483147
30°	309815	329861	314827
35°	164623	205306	168218
40°	89030	96516	87006
45°	42964	42964	40991
50°	20256	15674	20256
55°	9999	7567	9999
60°	5890	2790	5890
65°	3301	3301	3301
70°	4079	4079	4079
75°	5390	0	5390
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 42964 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.5	12.5
10°-20°	116.2	31.3
20°-30°	125.0	33.7
30°-40°	62.5	16.8
40°-50°	16.4	4.4
50°-60°	3.3	0.9
60°-70°	1.0	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°	287.7	77.5
0°-40°	350.2	94.3
0°-60°	369.8	99.6
0°-90°	371.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	371.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	505	505	505	505	505	
5°	499	496	497	498	498	46
15°	412	415	423	420	417	114
25°	274	278	281	284	282	122
35°	87	94	108	94	89	59
45°	20	19	20	19	19	17
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°	505.2	505.2	505.2	505.2	505.2
2.5°	504.3	503.3	503.3	504.3	503.3
5°	498.6	495.8	496.8	497.7	497.7
7.5°	483.7	483.7	484.6	485.5	484.6
10°	465.0	465.9	467.8	468.7	466.8
12.5°	440.6	442.5	448.1	446.3	443.4
15°	411.6	415.4	422.9	420.1	417.2
17.5°	379.8	385.4	392.9	391.1	387.3
20°	348.0	351.8	359.2	359.2	354.6
22.5°	314.3	318.1	322.8	324.6	322.8
25°	274.1	277.9	280.7	283.5	282.5
27.5°	224.5	231.1	232.9	235.8	233.9
30°	173.1	178.7	184.3	183.4	175.9
32.5°	123.5	130.0	146.9	134.7	124.4
35°	87.0	93.6	108.5	93.6	88.9
37.5°	63.6	62.7	73.9	63.6	62.7
40°	44.0	44.9	47.7	44.0	43.0
42.5°	29.9	29.0	30.9	29.9	29.0
45°	19.6	18.7	19.6	18.7	18.7
47.5°	12.2	11.2	11.2	11.2	12.2
50°	8.4	7.5	6.5	7.5	8.4
52.5°	5.6	4.7	4.7	4.7	5.6
55°	3.7	2.8	2.8	3.7	3.7
57.5°	2.8	1.9	1.9	1.9	2.8
60°	1.9	1.9	0.9	1.9	1.9
62.5°	1.9	0.9	0.9	0.9	1.9
65°	0.9	0.9	0.9	0.9	0.9
67.5°	0.9	0.9	0.9	0.9	0.9
70°	0.9	0.9	0.9	0.9	0.9
72.5°	0.9	0.9	0.0	0.9	0.9
75°	0.9	0.0	0.0	0.0	0.9
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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