

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: P885794

Luminaire Tested: ML104LSFL95FS1E-TIR1D55WFL-TL1SDSLB-340LM-3000K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885794
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-152)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D55WFL-TL1SDSLB-340LM-3000K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 372.5 lumens
Efficiency: N/A
Efficacy: 61.1 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.84 / 0.81
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

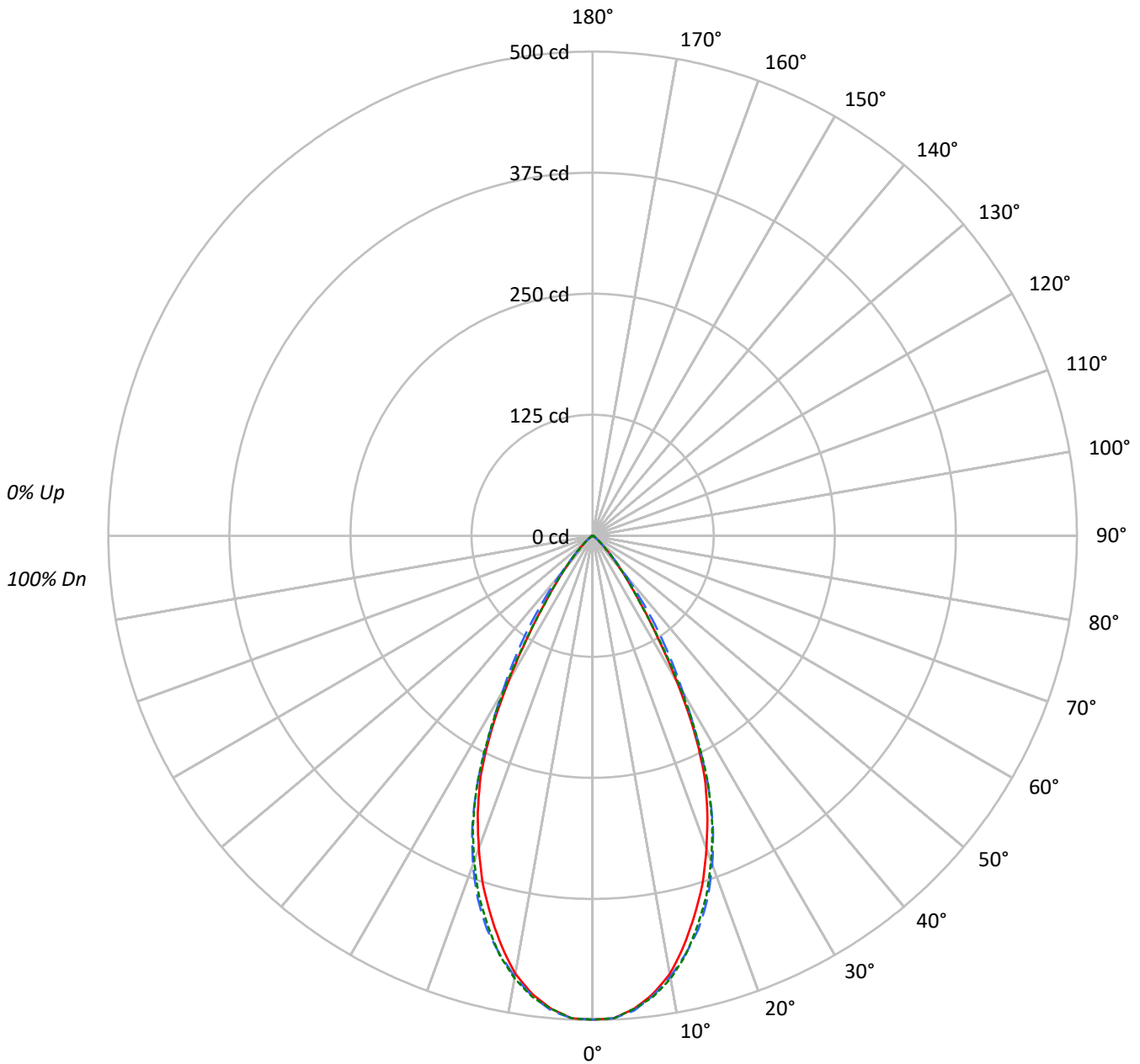
Input Watts (W): 6.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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									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	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	93	96	94	91	93	91	90	88																			
3	103	97	92	89	101	96	91	88	93	89	86	91	88	85	89	86	84	82																			
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77																			
5	94	86	80	76	92	85	80	76	83	78	75	81	77	74	80	76	74	72																			
6	89	81	75	71	88	80	75	71	78	74	70	77	73	70	76	72	69	68																			
7	85	76	70	66	84	76	70	66	74	69	66	73	69	66	72	68	65	64																			
8	81	72	66	62	80	72	66	62	70	66	62	69	65	62	69	65	62	60																			
9	78	68	63	59	76	68	62	59	67	62	59	66	62	58	65	61	58	57																			
10	74	65	59	56	73	64	59	56	64	59	55	63	58	55	62	58	55	54																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	774388	774388	774388
5°	762876	765677	762876
10°	723062	727469	730460
15°	651667	675577	669639
20°	566436	595797	589529
25°	467241	480068	481607
30°	311426	333262	323239
35°	168218	212496	164623
40°	89030	102182	90851
45°	42964	45156	42964
50°	20256	18085	20256
55°	12701	7567	12701
60°	8680	2790	8680
65°	6969	3301	6969
70°	4079	0	4079
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 45156 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.9	12.3
10°-20°	115.6	31.0
20°-30°	125.0	33.6
30°-40°	63.9	17.2
40°-50°	16.9	4.5
50°-60°	3.7	1.0
60°-70°	1.2	0.3
70°-80°	0.2	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°	286.6	76.9
0°-40°	350.5	94.1
0°-60°	371.1	99.6
0°-90°	372.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	372.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	500	500	500	500	500	
5°	490	491	492	491	490	46
15°	406	412	421	418	417	113
25°	273	276	281	284	282	121
35°	89	94	112	97	87	59
45°	20	19	21	19	20	17
55°	5	4	3	4	5	4
65°	2	1	1	1	2	2
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°	499.6	499.6	499.6	499.6	499.6
2.5°	498.7	498.7	498.7	498.7	498.7
5°	490.3	491.2	492.1	491.2	490.3
7.5°	477.2	477.2	479.0	480.0	480.0
10°	459.4	460.3	462.2	464.1	464.1
12.5°	434.1	438.8	442.6	441.6	443.5
15°	406.1	411.7	421.0	418.2	417.3
17.5°	377.1	383.6	393.9	391.1	390.2
20°	343.4	350.9	361.2	358.3	357.4
22.5°	309.7	316.2	324.7	324.7	322.8
25°	273.2	276.0	280.7	283.5	281.6
27.5°	226.4	233.0	231.1	235.8	232.0
30°	174.0	181.5	186.2	185.3	180.6
32.5°	126.3	135.7	147.8	139.4	129.1
35°	88.9	94.5	112.3	97.3	87.0
37.5°	62.7	65.5	78.6	64.6	62.7
40°	44.0	44.9	50.5	44.9	44.9
42.5°	29.9	29.9	31.8	29.9	29.9
45°	19.6	18.7	20.6	18.7	19.6
47.5°	13.1	12.2	12.2	12.2	12.2
50°	8.4	8.4	7.5	7.5	8.4
52.5°	6.5	5.6	4.7	5.6	5.6
55°	4.7	3.7	2.8	3.7	4.7
57.5°	2.8	2.8	1.9	2.8	2.8
60°	2.8	1.9	0.9	1.9	2.8
62.5°	1.9	1.9	0.9	1.9	1.9
65°	1.9	0.9	0.9	0.9	1.9
67.5°	0.9	0.9	0.9	0.9	0.9
70°	0.9	0.9	0.0	0.9	0.9
72.5°	0.9	0.9	0.0	0.0	0.9
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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