

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: P885769

Luminaire Tested: ML104LSFL95FS1E-TIR1D55WFL-TL1SDMB-340LM-3000K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885769
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-150)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D55WFL-TL1SDMB-340LM-3000K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE BLACK TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 353.6 lumens
Efficiency: N/A
Efficacy: 58.0 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.83 / 0.8
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

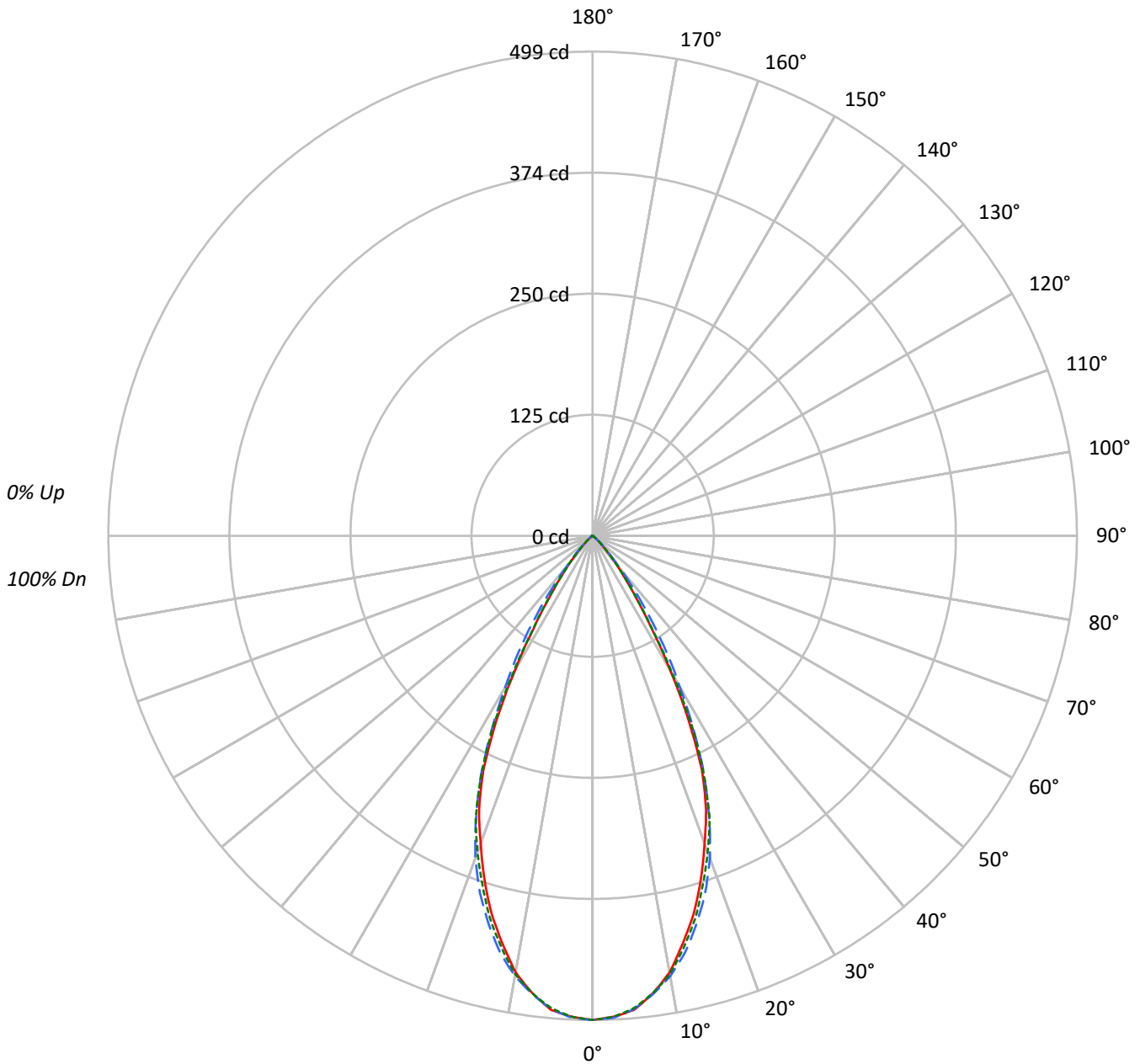
Input Watts (W): 6.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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									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													
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94						94													
2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	89						89													
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	85	83						83													
4	99	92	87	83	97	91	86	82	89	85	81	87	83	80	85	82	79	78						78													
5	94	87	81	77	93	86	81	77	84	79	76	82	78	75	81	77	75	73						73													
6	90	82	76	72	89	81	76	72	79	75	71	78	74	71	77	73	70	69						69													
7	86	77	72	68	85	77	71	68	75	71	67	74	70	67	73	69	66	65						65													
8	82	73	68	64	81	73	67	64	72	67	63	71	66	63	70	66	63	62						62													
9	79	69	64	60	77	69	64	60	68	63	60	67	63	60	66	62	60	58						58													
10	75	66	61	57	74	66	60	57	65	60	57	64	60	57	63	59	56	55						55													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	773458	773458	773458
5°	763343	761942	760386
10°	719285	725108	722118
15°	646371	664344	655357
20°	556374	582601	571879
25°	455441	465018	463479
30°	286011	321091	296034
35°	146836	194520	152135
40°	73652	88827	73652
45°	30689	36827	30689
50°	8922	13504	11334
55°	2432	5135	2432
60°	0	0	0
65°	0	0	0
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: 36827 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.7	12.9
10°-20°	113.8	32.2
20°-30°	120.9	34.2
30°-40°	58.2	16.5
40°-50°	13.4	3.8
50°-60°	1.5	0.4
60°-70°	0.0	0.0
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°	280.5	79.3
0°-40°	338.7	95.8
0°-60°	353.6	100.0
0°-90°	353.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	353.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	499	499	499	499	499	
5°	491	490	490	490	489	46
15°	403	408	414	412	408	112
25°	266	268	272	278	271	117
35°	78	85	103	86	80	52
45°	14	15	17	15	14	12
55°	1	1	2	1	1	1
65°	0	0	0	0	0	0
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°	499.0	499.0	499.0	499.0	499.0
2.5°	496.2	496.2	497.1	497.1	496.2
5°	490.6	489.7	489.7	489.7	488.7
7.5°	475.6	475.6	476.6	477.5	475.6
10°	457.0	457.9	460.7	458.8	458.8
12.5°	429.9	433.6	440.1	438.3	434.5
15°	402.8	408.4	414.0	412.1	408.4
17.5°	371.0	377.5	385.9	382.2	377.5
20°	337.3	342.9	353.2	349.5	346.7
22.5°	305.6	308.4	314.0	314.0	314.9
25°	266.3	268.2	271.9	277.5	271.0
27.5°	214.0	220.5	225.2	227.1	222.4
30°	159.8	170.1	179.4	176.6	165.4
32.5°	113.1	124.3	141.1	129.0	114.9
35°	77.6	85.0	102.8	86.0	80.4
37.5°	53.3	57.9	70.1	57.9	55.1
40°	36.4	39.2	43.9	39.2	36.4
42.5°	23.4	25.2	27.1	25.2	23.4
45°	14.0	15.0	16.8	15.0	14.0
47.5°	7.5	8.4	9.3	8.4	7.5
50°	3.7	4.7	5.6	4.7	4.7
52.5°	1.9	2.8	2.8	2.8	2.8
55°	0.9	0.9	1.9	0.9	0.9
57.5°	0.0	0.0	0.9	0.9	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
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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