

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P885781

Luminaire Tested: ML104LSFL95FS1E-TIR1D55WFL-TL1SDMW-340LM-4000K

Issue Date: 6/19/2024

Test Information

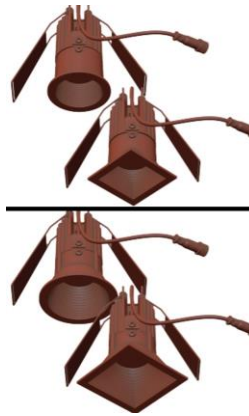
Test Method: LM-79-2019
Report Number: P885781
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-148)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D55WFL-TL1SDMW-340LM-4000K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 424.1 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 0.83 / 0.8
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')

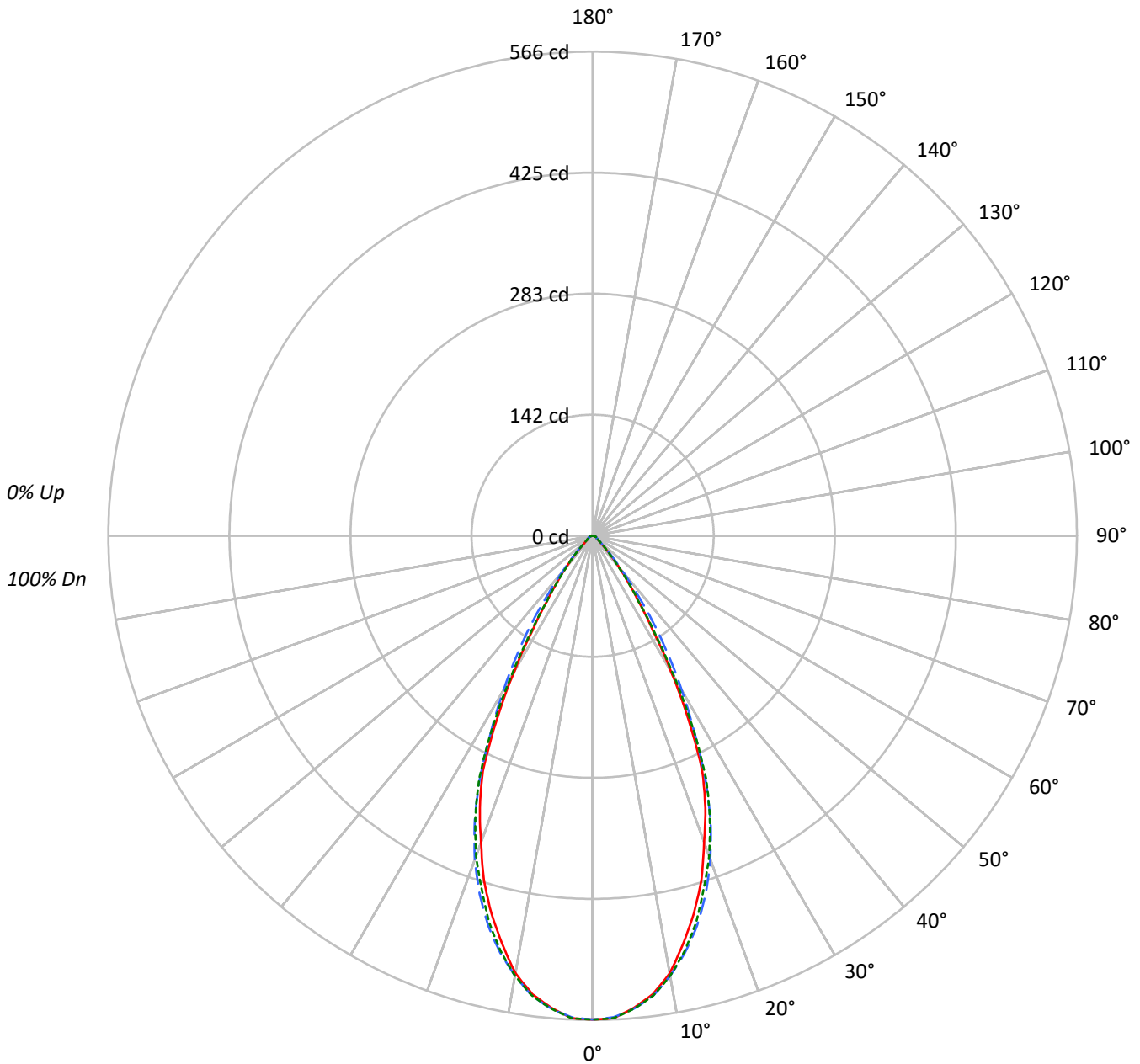
CIE Type: Direct

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					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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93								
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87								
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	87	85	83	81								
4	98	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76								
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71								
6	88	80	74	70	87	79	73	69	77	73	69	76	72	68	75	71	68	67								
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63								
8	80	71	65	61	79	71	65	61	69	64	61	68	64	61	68	63	60	59								
9	77	67	62	58	76	67	61	58	66	61	57	65	61	57	64	60	57	56								
10	73	64	58	55	72	64	58	55	63	58	54	62	57	54	61	57	54	53								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	876534	876534	876534
5°	861833	863545	863545
10°	817183	822062	822062
15°	733346	757095	750355
20°	628787	663591	656663
25°	518720	531376	536678
30°	327892	371384	343106
35°	175409	231229	177301
40°	97933	110882	93684
45°	46252	53048	48444
50°	25320	27972	27972
55°	19998	19998	19998
60°	16430	16430	16430
65°	15404	19439	15404
70°	19034	19034	19034
75°	19164	19164	19164
80°	18745	18745	18745
85°	19563	19563	19563

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 53048 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.0	12.3
10°-20°	129.6	30.6
20°-30°	138.1	32.6
30°-40°	69.1	16.3
40°-50°	19.7	4.6
50°-60°	6.9	1.6
60°-70°	4.8	1.1
70°-80°	3.1	0.7
80°-90°	0.9	0.2
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°	319.7	75.4
0°-40°	388.8	91.7
0°-60°	415.4	97.9
0°-90°	424.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	424.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	566	566	566	566	566	
5°	554	555	555	555	555	52
15°	457	462	472	469	468	127
25°	303	306	311	314	314	133
35°	93	102	122	103	94	62
45°	21	22	24	23	22	18
55°	7	7	7	7	7	7
65°	4	5	5	5	4	5
75°	3	3	3	3	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	565.5	565.5	565.5	565.5	565.5
2.5°	564.4	563.4	563.4	564.4	564.4
5°	553.9	555.0	555.0	555.0	555.0
7.5°	540.2	541.3	542.3	543.4	542.3
10°	519.2	520.2	522.3	524.4	522.3
12.5°	488.6	493.9	499.1	498.1	497.0
15°	457.0	462.3	471.8	468.6	467.6
17.5°	422.3	428.6	439.1	438.1	431.8
20°	381.2	390.7	402.3	399.1	398.1
22.5°	344.3	351.7	360.1	361.2	358.0
25°	303.3	306.4	310.7	313.8	313.8
27.5°	243.3	252.7	255.9	259.1	254.8
30°	183.2	195.9	207.5	204.3	191.7
32.5°	130.6	146.4	163.2	151.6	135.8
35°	92.7	102.1	122.2	103.2	93.7
37.5°	67.4	70.6	84.2	71.6	67.4
40°	48.4	49.5	54.8	49.5	46.3
42.5°	32.6	34.8	36.9	34.8	32.6
45°	21.1	22.1	24.2	23.2	22.1
47.5°	13.7	14.7	15.8	15.8	15.8
50°	10.5	10.5	11.6	12.6	11.6
52.5°	8.4	8.4	9.5	9.5	8.4
55°	7.4	7.4	7.4	7.4	7.4
57.5°	6.3	6.3	6.3	6.3	6.3
60°	5.3	5.3	5.3	5.3	5.3
62.5°	5.3	5.3	5.3	5.3	5.3
65°	4.2	5.3	5.3	5.3	4.2
67.5°	4.2	4.2	4.2	4.2	4.2
70°	4.2	4.2	4.2	4.2	4.2
72.5°	3.2	3.2	3.2	3.2	3.2
75°	3.2	3.2	3.2	3.2	3.2
77.5°	2.1	2.1	2.1	2.1	2.1
80°	2.1	2.1	2.1	2.1	2.1
82.5°	1.1	1.1	1.1	1.1	1.1
85°	1.1	1.1	1.1	1.1	1.1
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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