

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: P885768

Luminaire Tested: ML104LSFL95FS1E-TIR1D55WFL-TL1SDMB-340LM-2700K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885768
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-2700K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE BLACK TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 340.5 lumens
Efficiency: N/A
Efficacy: 55.8 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

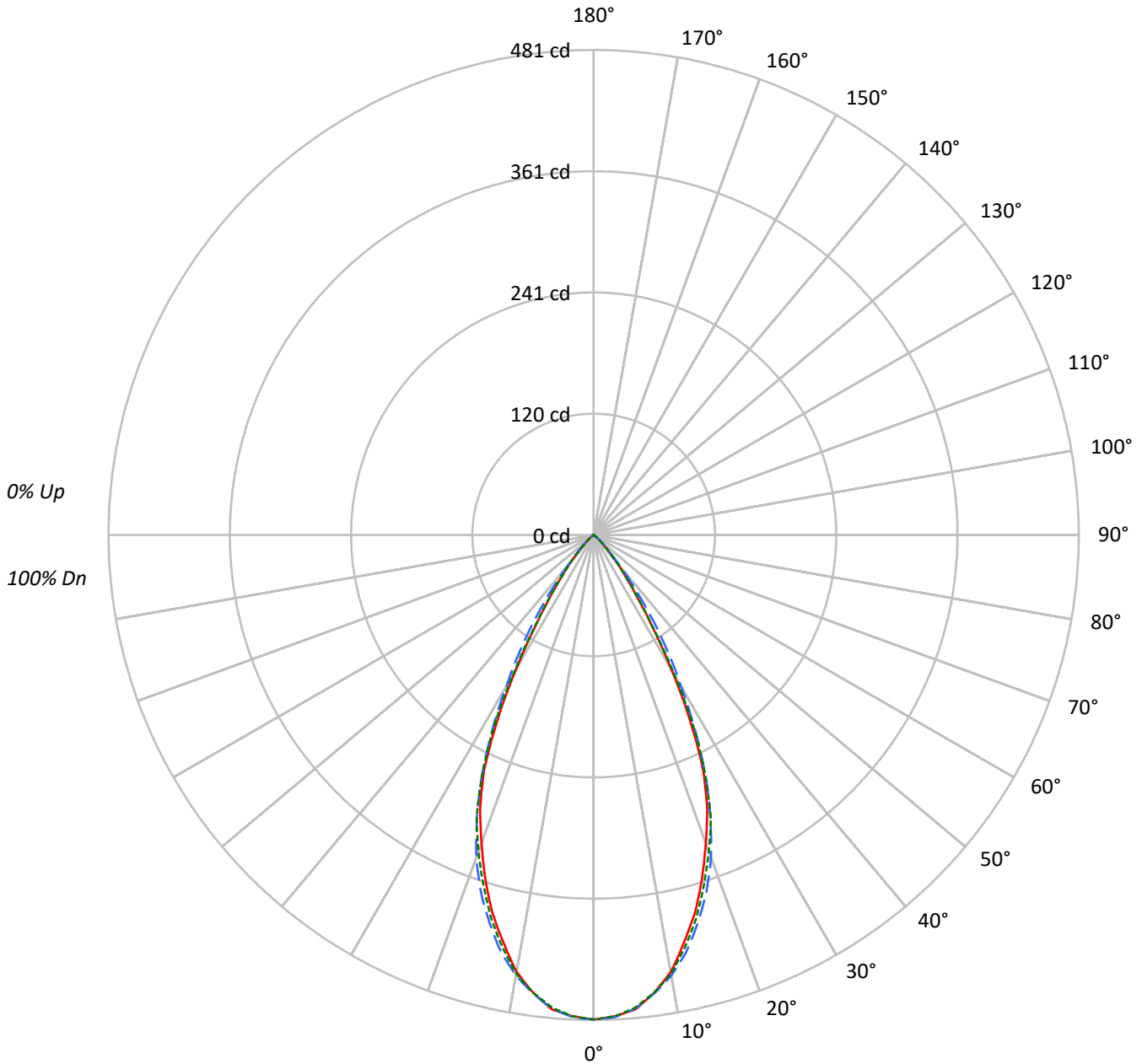
Input Watts (W): 6.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	744938	744938	744938
5°	735180	733780	732380
10°	692686	698352	695519
15°	622461	639792	631126
20°	535920	561157	550766
25°	438680	447915	446376
30°	275451	309278	285116
35°	141349	187330	146458
40°	71021	85590	71021
45°	29593	35511	29593
50°	8681	13022	10851
55°	2432	4864	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: 35511 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.0	12.9
10°-20°	109.6	32.2
20°-30°	116.5	34.2
30°-40°	56.1	16.5
40°-50°	12.9	3.8
50°-60°	1.4	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°	270.1	79.3
0°-40°	326.2	95.8
0°-60°	340.5	100.0
0°-90°	340.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	340.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	481	481	481	481	481	
5°	472	472	472	472	471	44
15°	388	393	399	397	393	108
25°	256	258	262	267	261	113
35°	75	82	99	83	77	50
45°	14	14	16	14	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°	480.6	480.6	480.6	480.6	480.6
2.5°	477.9	477.9	478.8	478.8	477.9
5°	472.5	471.6	471.6	471.6	470.7
7.5°	458.1	458.1	459.0	459.9	458.1
10°	440.1	441.0	443.7	441.9	441.9
12.5°	414.0	417.6	423.9	422.1	418.5
15°	387.9	393.3	398.7	396.9	393.3
17.5°	357.3	363.6	371.7	368.1	363.6
20°	324.9	330.3	340.2	336.6	333.9
22.5°	294.3	297.0	302.4	302.4	303.3
25°	256.5	258.3	261.9	267.3	261.0
27.5°	206.1	212.4	216.9	218.7	214.2
30°	153.9	163.8	172.8	170.1	159.3
32.5°	108.9	119.7	135.9	124.2	110.7
35°	74.7	81.9	99.0	82.8	77.4
37.5°	51.3	55.8	67.5	55.8	53.1
40°	35.1	37.8	42.3	37.8	35.1
42.5°	22.5	24.3	26.1	24.3	22.5
45°	13.5	14.4	16.2	14.4	13.5
47.5°	7.2	8.1	9.0	8.1	7.2
50°	3.6	4.5	5.4	4.5	4.5
52.5°	1.8	2.7	2.7	2.7	2.7
55°	0.9	0.9	1.8	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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