

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: P885787

Luminaire Tested: ML104LSFL95FS1E-TIR1D55WFL-TL1SDMWB-340LM-5000K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885787
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-151)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D55WFL-TL1SDMWB-340LM-5000K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 471.3 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.83 / 0.81
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

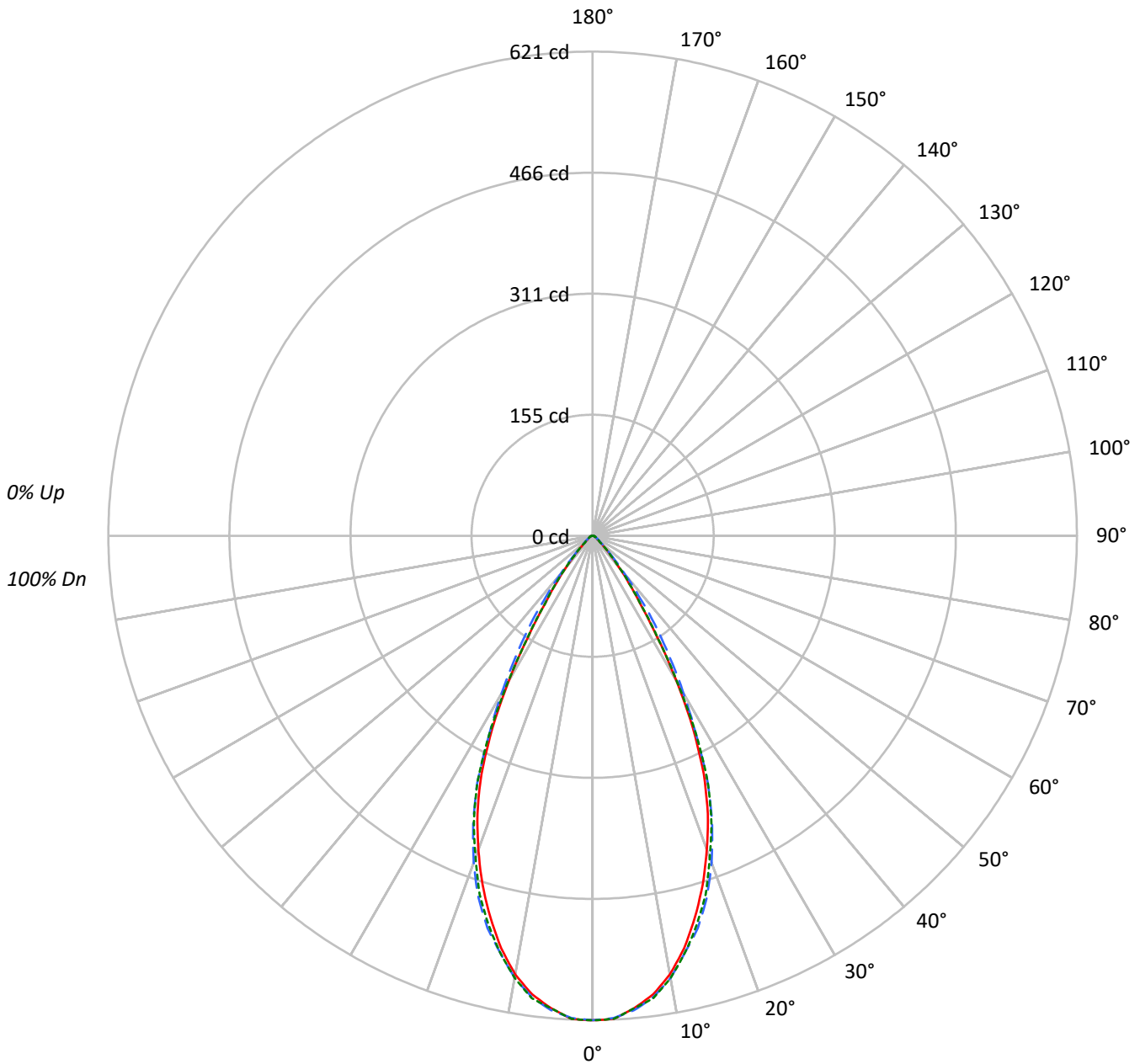
Input Watts (W): 6.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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					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								
1	113	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93								
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87								
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81								
4	98	90	85	81	96	89	84	80	87	83	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	69	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	70	65	61	69	64	61	68	63	60	59								
9	77	67	62	58	76	67	61	58	66	61	58	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°	963180	963180	963180
5°	946788	950522	946788
10°	898870	906268	906268
15°	813099	835725	828183
20°	706478	735509	723797
25°	576355	598418	598418
30°	385345	416845	389640
35°	201521	263586	203792
40°	106633	130307	108859
45°	53925	61597	53925
50°	25320	33760	28213
55°	18917	22159	18917
60°	18290	18290	18290
65°	17238	17238	17238
70°	15862	15862	15862
75°	13774	13774	13774
80°	10711	10711	10711
85°	21341	21341	21341

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 61597 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.1	12.1
10°-20°	143.4	30.4
20°-30°	154.7	32.8
30°-40°	78.6	16.7
40°-50°	22.1	4.7
50°-60°	7.2	1.5
60°-70°	4.5	1.0
70°-80°	2.8	0.6
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°	355.2	75.4
0°-40°	433.8	92.0
0°-60°	463.1	98.3
0°-90°	471.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	471.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	621	621	621	621	621	
5°	608	611	611	611	608	57
15°	507	513	521	520	516	141
25°	337	342	350	350	350	150
35°	106	117	139	119	108	72
45°	25	26	28	26	25	20
55°	7	7	8	8	7	7
65°	5	5	5	5	5	4
75°	2	2	2	2	2	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°	621.4	621.4	621.4	621.4	621.4
2.5°	620.2	619.1	619.1	620.2	620.2
5°	608.5	610.9	610.9	610.9	608.5
7.5°	593.3	594.5	596.8	596.8	598.0
10°	571.1	573.4	575.8	575.8	575.8
12.5°	541.8	544.2	547.7	548.9	547.7
15°	506.7	512.6	520.8	519.6	516.1
17.5°	469.3	476.3	486.8	483.3	482.1
20°	428.3	436.5	445.9	442.4	438.8
22.5°	386.2	393.2	400.2	400.2	397.9
25°	337.0	341.7	349.9	349.9	349.9
27.5°	278.5	284.4	286.7	291.4	287.9
30°	215.3	223.5	232.9	230.5	217.7
32.5°	153.3	166.2	182.6	170.9	155.6
35°	106.5	117.0	139.3	119.4	107.7
37.5°	76.1	79.6	97.1	79.6	77.2
40°	52.7	55.0	64.4	55.0	53.8
42.5°	36.3	38.6	42.1	38.6	35.1
45°	24.6	25.7	28.1	25.7	24.6
47.5°	15.2	16.4	18.7	17.6	16.4
50°	10.5	11.7	14.0	12.9	11.7
52.5°	8.2	9.4	10.5	9.4	9.4
55°	7.0	7.0	8.2	8.2	7.0
57.5°	5.9	5.9	7.0	5.9	5.9
60°	5.9	5.9	5.9	5.9	5.9
62.5°	4.7	4.7	4.7	4.7	4.7
65°	4.7	4.7	4.7	4.7	4.7
67.5°	3.5	4.7	3.5	4.7	3.5
70°	3.5	3.5	3.5	3.5	3.5
72.5°	3.5	3.5	3.5	3.5	3.5
75°	2.3	2.3	2.3	2.3	2.3
77.5°	2.3	2.3	2.3	2.3	2.3
80°	1.2	1.2	1.2	2.3	1.2
82.5°	1.2	1.2	1.2	1.2	1.2
85°	1.2	1.2	1.2	1.2	1.2
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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