

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: P885786

Luminaire Tested: ML104LSFL95FS1E-TIR1D55WFL-TL1SDMWB-340LM-4000K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885786
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-4000K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT
Ballast/Driver: -

Summary

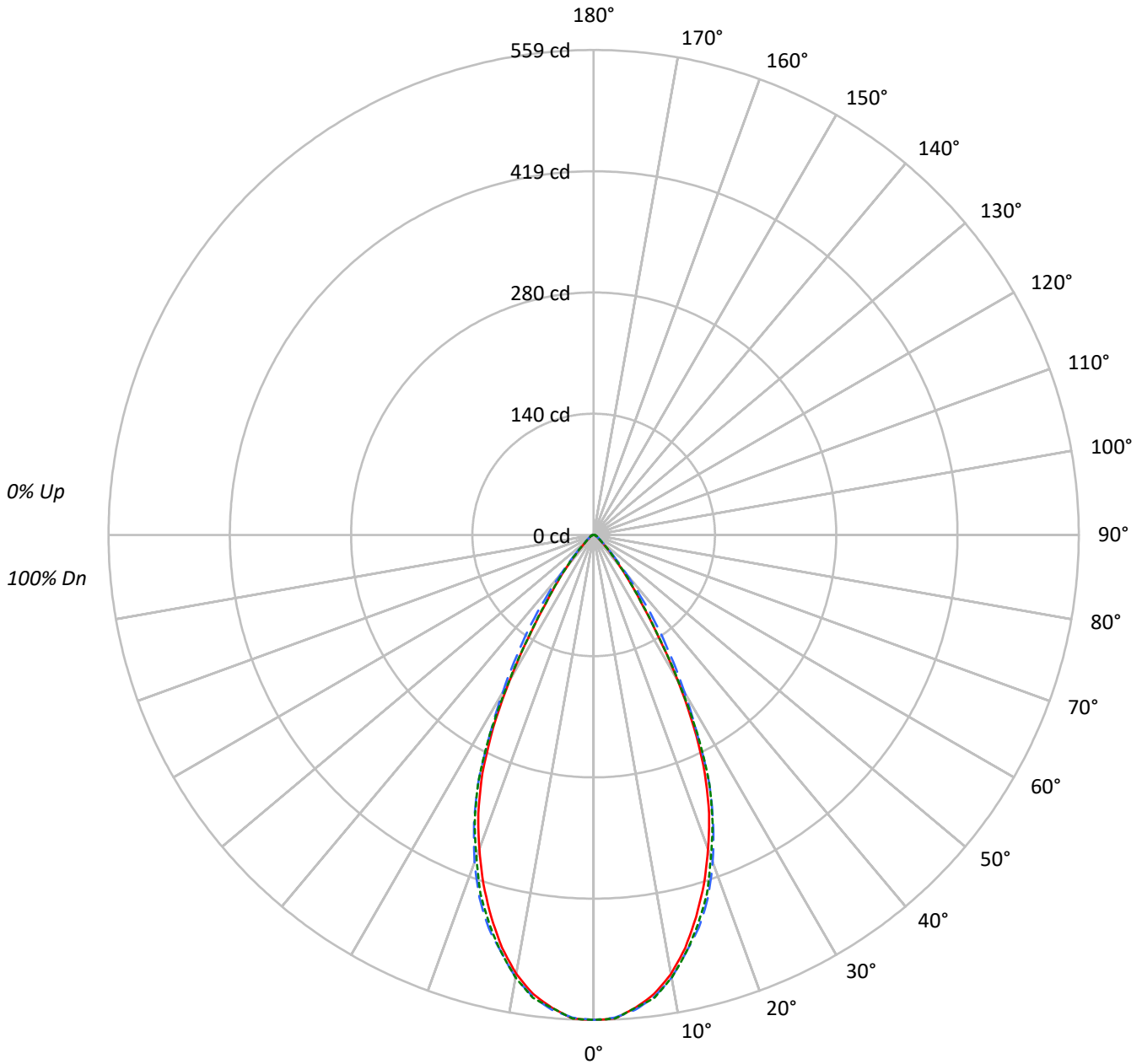
Lumens per Lamp: N/A
Luminaire Lumens: 424.0 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.83 / 0.81
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

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					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			
1	113	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93					93			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87					87			
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81					81			
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76					76			
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71					71			
6	88	80	74	70	87	79	73	69	77	73	69	76	72	69	75	71	68	67					67			
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63					63			
8	80	71	65	61	79	71	65	61	70	65	61	68	64	61	68	63	60	59					59			
9	77	67	62	58	76	67	61	58	66	61	58	65	61	57	64	60	57	56					56			
10	73	64	58	55	72	64	58	55	63	58	54	62	57	54	61	57	54	53					53			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	866459	866459	866459
5°	851875	855143	851875
10°	808684	815295	815295
15°	731580	751800	745060
20°	635550	661612	651220
25°	518549	538388	538388
30°	346685	374964	350444
35°	181275	237095	183356
40°	95909	117155	97933
45°	48444	55459	48444
50°	22908	30384	25320
55°	17025	19998	17025
60°	16430	16430	16430
65°	15404	15404	15404
70°	14502	14502	14502
75°	12576	12576	12576
80°	9819	9819	9819
85°	19563	19563	19563

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 55459 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.4	12.1
10°-20°	129.0	30.4
20°-30°	139.1	32.8
30°-40°	70.7	16.7
40°-50°	19.9	4.7
50°-60°	6.5	1.5
60°-70°	4.0	1.0
70°-80°	2.6	0.6
80°-90°	0.8	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°	319.5	75.4
0°-40°	390.2	92.0
0°-60°	416.6	98.3
0°-90°	424.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	424.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	559	559	559	559	559	
5°	548	550	550	550	548	51
15°	456	461	468	467	464	127
25°	303	307	315	315	315	135
35°	96	105	125	107	97	65
45°	22	23	25	23	22	18
55°	6	6	7	7	6	6
65°	4	4	4	4	4	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°	559.0	559.0	559.0	559.0	559.0
2.5°	558.0	556.9	556.9	558.0	558.0
5°	547.5	549.6	549.6	549.6	547.5
7.5°	533.8	534.8	536.9	536.9	538.0
10°	513.8	515.9	518.0	518.0	518.0
12.5°	487.4	489.6	492.7	493.8	492.7
15°	455.9	461.1	468.5	467.4	464.3
17.5°	422.2	428.5	438.0	434.8	433.8
20°	385.3	392.7	401.1	398.0	394.8
22.5°	347.4	353.7	360.1	360.1	358.0
25°	303.2	307.4	314.8	314.8	314.8
27.5°	250.6	255.8	257.9	262.1	259.0
30°	193.7	201.1	209.5	207.4	195.8
32.5°	137.9	149.5	164.2	153.7	140.0
35°	95.8	105.3	125.3	107.4	96.9
37.5°	68.4	71.6	87.4	71.6	69.5
40°	47.4	49.5	57.9	49.5	48.4
42.5°	32.6	34.7	37.9	34.7	31.6
45°	22.1	23.2	25.3	23.2	22.1
47.5°	13.7	14.7	16.8	15.8	14.7
50°	9.5	10.5	12.6	11.6	10.5
52.5°	7.4	8.4	9.5	8.4	8.4
55°	6.3	6.3	7.4	7.4	6.3
57.5°	5.3	5.3	6.3	5.3	5.3
60°	5.3	5.3	5.3	5.3	5.3
62.5°	4.2	4.2	4.2	4.2	4.2
65°	4.2	4.2	4.2	4.2	4.2
67.5°	3.2	4.2	3.2	4.2	3.2
70°	3.2	3.2	3.2	3.2	3.2
72.5°	3.2	3.2	3.2	3.2	3.2
75°	2.1	2.1	2.1	2.1	2.1
77.5°	2.1	2.1	2.1	2.1	2.1
80°	1.1	1.1	1.1	2.1	1.1
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

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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