

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: P885796

Luminaire Tested: ML104LSFL95FS1E-TIR1D55WFL-TL1SDSLB-340LM-4000K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885796
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-152)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D55WFL-TL1SDSLB-340LM-4000K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT
Ballast/Driver: -

Summary

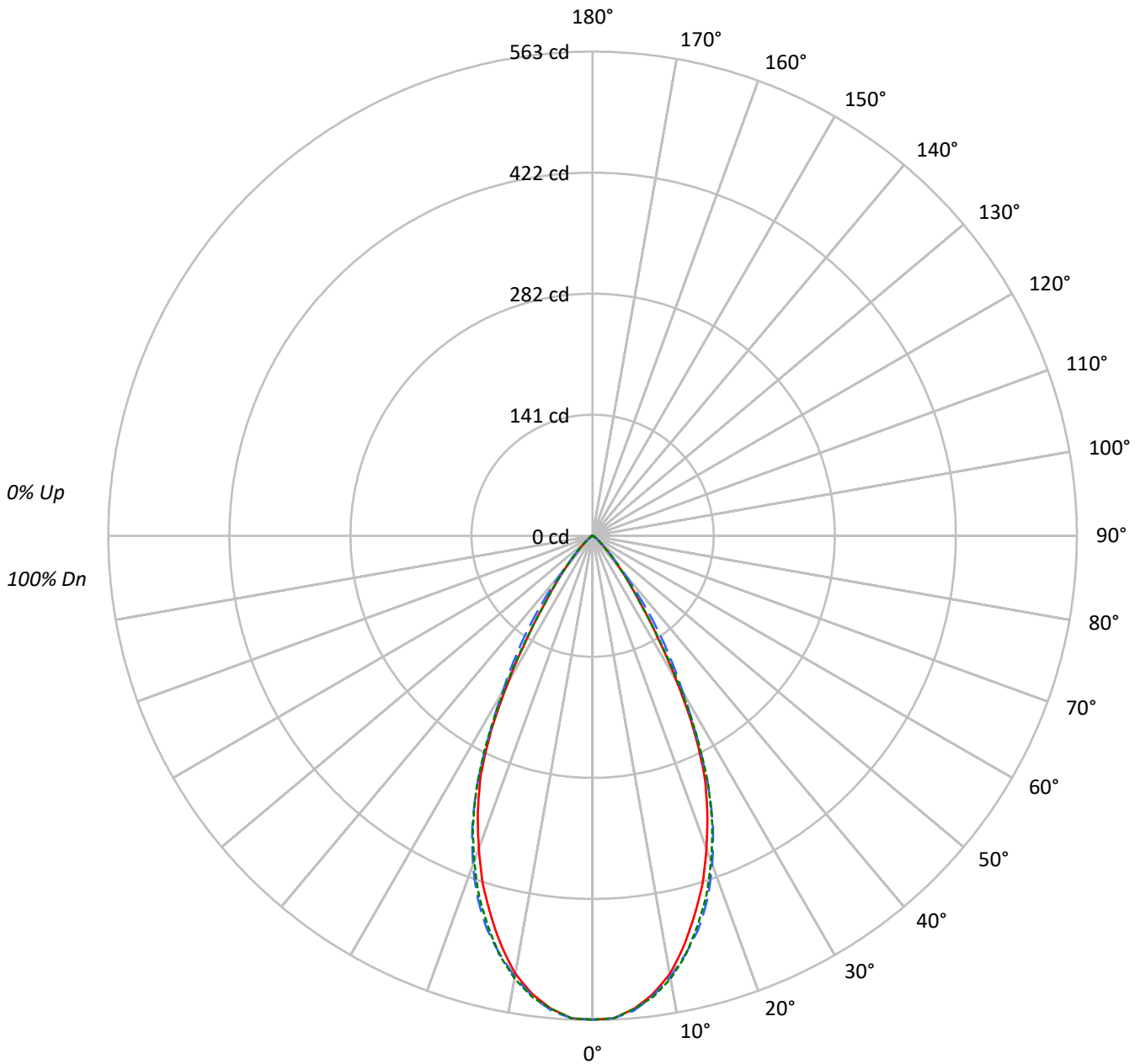
Lumens per Lamp: N/A
Luminaire Lumens: 419.6 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.84 / 0.81
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

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									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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	108	104	100	97	106	102	99	96	99	96	93	96	94	91	93	91	90	88																			
3	103	97	92	89	101	96	91	88	93	89	86	91	88	85	88	86	84	82																			
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77																			
5	94	86	80	76	92	85	80	76	83	78	75	81	77	74	80	76	74	72																			
6	89	81	75	71	88	80	75	71	78	74	70	77	73	70	76	72	69	68																			
7	85	76	70	66	84	76	70	66	74	69	66	73	69	66	72	68	65	64																			
8	81	72	66	62	80	72	66	62	70	66	62	69	65	62	69	65	62	60																			
9	78	68	63	59	76	68	62	59	67	62	59	66	62	58	65	61	58	57																			
10	74	65	59	56	73	64	59	56	64	59	55	63	58	55	62	58	55	54																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	872039	872039	872039
5°	859033	862300	859033
10°	814193	819229	822535
15°	733666	760786	754046
20°	637859	670849	663921
25°	526074	540611	542321
30°	350802	375322	363867
35°	189411	239177	185438
40°	100158	115132	102384
45°	48444	50856	48444
50°	22908	20256	22908
55°	14323	8648	14323
60°	9920	3410	9920
65°	7702	4034	7702
70°	4985	0	4985
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 50856 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.7	12.3
10°-20°	130.2	31.0
20°-30°	140.8	33.6
30°-40°	72.0	17.2
40°-50°	19.0	4.5
50°-60°	4.2	1.0
60°-70°	1.4	0.3
70°-80°	0.3	0.1
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°	322.7	76.9
0°-40°	394.7	94.1
0°-60°	417.9	99.6
0°-90°	419.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	419.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	563	563	563	563	563	
5°	552	553	554	553	552	52
15°	457	464	474	471	470	127
25°	308	311	316	319	317	137
35°	100	106	126	110	98	67
45°	22	21	23	21	22	19
55°	5	4	3	4	5	5
65°	2	1	1	1	2	2
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°	562.6	562.6	562.6	562.6	562.6
2.5°	561.5	561.5	561.5	561.5	561.5
5°	552.1	553.1	554.2	553.1	552.1
7.5°	537.3	537.3	539.4	540.5	540.5
10°	517.3	518.4	520.5	522.6	522.6
12.5°	488.9	494.1	498.3	497.3	499.4
15°	457.2	463.6	474.1	470.9	469.9
17.5°	424.6	432.0	443.5	440.4	439.3
20°	386.7	395.1	406.7	403.5	402.5
22.5°	348.7	356.1	365.6	365.6	363.5
25°	307.6	310.8	316.1	319.2	317.1
27.5°	255.0	262.3	260.2	265.5	261.3
30°	196.0	204.4	209.7	208.6	203.3
32.5°	142.2	152.8	166.5	157.0	145.4
35°	100.1	106.4	126.4	109.6	98.0
37.5°	70.6	73.7	88.5	72.7	70.6
40°	49.5	50.6	56.9	50.6	50.6
42.5°	33.7	33.7	35.8	33.7	33.7
45°	22.1	21.1	23.2	21.1	22.1
47.5°	14.7	13.7	13.7	13.7	13.7
50°	9.5	9.5	8.4	8.4	9.5
52.5°	7.4	6.3	5.3	6.3	6.3
55°	5.3	4.2	3.2	4.2	5.3
57.5°	3.2	3.2	2.1	3.2	3.2
60°	3.2	2.1	1.1	2.1	3.2
62.5°	2.1	2.1	1.1	2.1	2.1
65°	2.1	1.1	1.1	1.1	2.1
67.5°	1.1	1.1	1.1	1.1	1.1
70°	1.1	1.1	0.0	1.1	1.1
72.5°	1.1	1.1	0.0	0.0	1.1
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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