

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: P885673

Luminaire Tested: ML104LSFL95FS1E-TIR1D25NFL-TL1SDSLB-340LM-2700K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-140)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D25NFL-TL1SDSLB-340LM-2700K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 283.5 lumens
Efficiency: N/A
Efficacy: 46.5 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.56
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

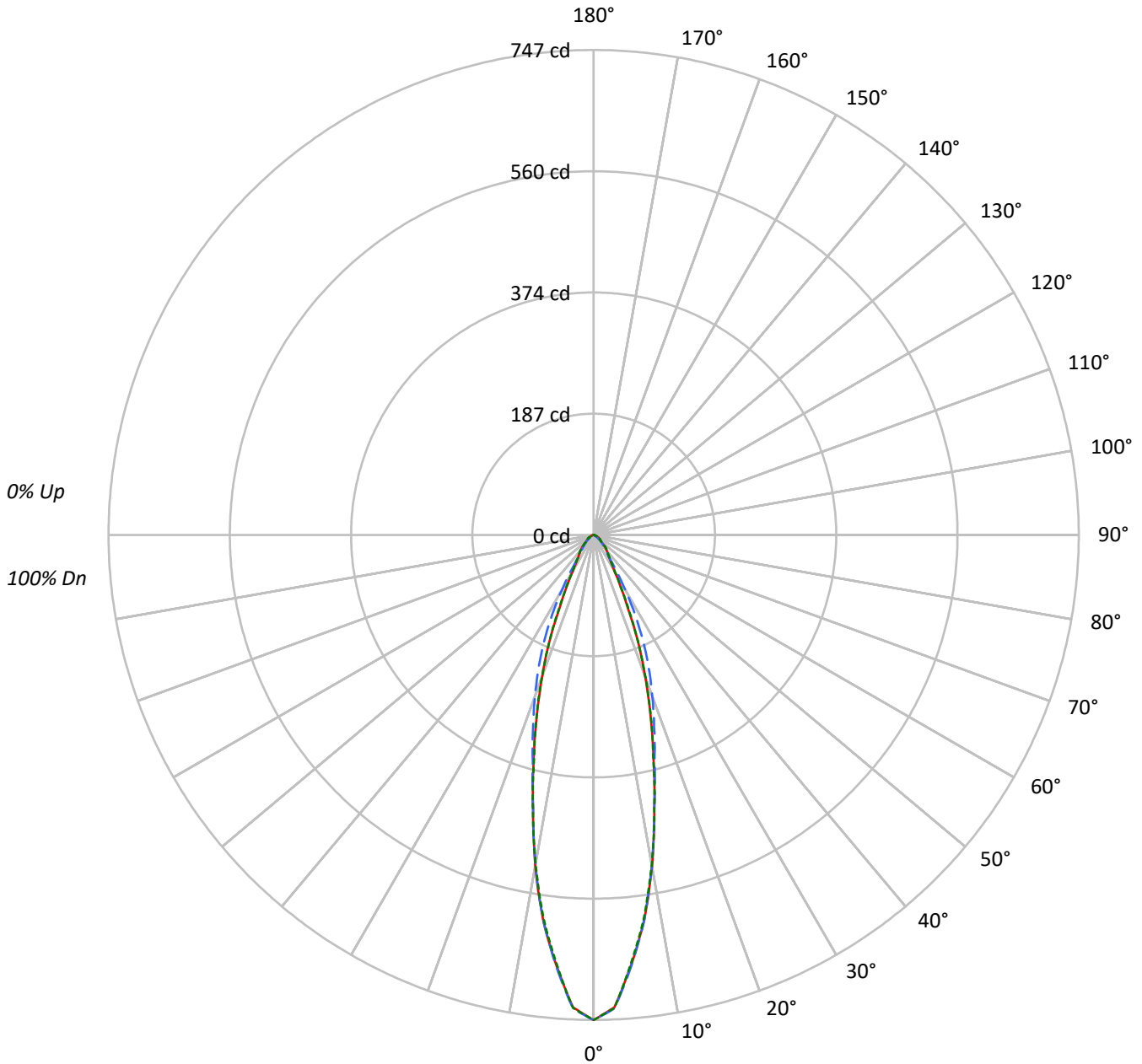
Input Watts (W): 6.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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				
RW	70	50	30	10	70	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	112	109	107	105	105	104	102	101	100	99	98	97	96	94		
2	109	104	101	98	107	103	99	96	99	97	94	97	94	92	94	92	90	89		
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84		
4	100	93	88	84	98	92	87	83	89	86	82	88	84	81	86	83	81	79		
5	95	88	83	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75		
6	91	83	78	74	90	83	78	74	81	77	73	80	76	73	79	75	72	71		
7	88	79	74	70	86	79	74	70	78	73	70	76	72	69	75	72	69	68		
8	84	76	71	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65		
9	81	73	67	64	80	72	67	64	71	67	64	70	66	63	70	66	63	62		
10	78	70	64	61	77	69	64	61	68	64	61	68	64	61	67	63	61	59		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1158327	1158327	1158327
5°	1033765	1036565	1029563
10°	814822	811989	810573
15°	572074	580739	567741
20°	381693	435136	383177
25°	212413	308017	220110
30°	114369	172358	117590
35°	76635	74932	80041
40°	61916	52811	65558
45°	47348	41430	51294
50°	34724	30384	34724
55°	31618	9729	31618
60°	27900	8370	27900
65°	19805	6602	19805
70°	12236	4079	12236
75°	5390	5390	5390
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 51294 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.9	20.8
10°-20°	100.3	35.4
20°-30°	69.0	24.3
30°-40°	28.6	10.1
40°-50°	15.5	5.5
50°-60°	7.1	2.5
60°-70°	3.2	1.1
70°-80°	0.9	0.3
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°	228.3	80.5
0°-40°	256.9	90.6
0°-60°	279.5	98.6
0°-90°	283.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	283.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	747	747	747	747	747	
5°	664	663	666	664	662	59
15°	356	358	362	360	354	99
25°	124	144	180	146	129	60
35°	40	44	40	44	42	27
45°	22	20	19	21	23	17
55°	12	7	4	7	12	10
65°	5	3	2	3	5	5
75°	1	1	1	1	1	1
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°	747.3	747.3	747.3	747.3	747.3
2.5°	728.4	729.3	730.2	732.0	729.3
5°	664.4	662.6	666.2	663.5	661.7
7.5°	597.8	597.8	597.8	596.0	594.2
10°	517.7	517.7	515.9	516.8	515.0
12.5°	431.2	428.5	431.2	429.4	432.2
15°	356.5	358.3	361.9	360.1	353.8
17.5°	290.8	298.0	309.7	298.9	292.6
20°	231.4	244.9	263.8	244.9	232.3
22.5°	178.3	193.6	221.5	194.5	178.3
25°	124.2	144.1	180.1	145.9	128.7
27.5°	90.0	101.7	137.7	103.5	90.9
30°	63.9	73.8	96.3	75.6	65.7
32.5°	49.5	57.6	61.2	56.7	50.4
35°	40.5	44.1	39.6	44.1	42.3
37.5°	35.1	34.2	31.5	35.1	36.9
40°	30.6	27.9	26.1	28.8	32.4
42.5°	27.0	24.3	22.5	24.3	27.9
45°	21.6	19.8	18.9	20.7	23.4
47.5°	16.2	14.4	16.2	15.3	16.2
50°	14.4	9.9	12.6	9.9	14.4
52.5°	12.6	8.1	8.1	8.1	12.6
55°	11.7	7.2	3.6	7.2	11.7
57.5°	9.9	6.3	3.6	6.3	9.9
60°	9.0	5.4	2.7	5.4	9.0
62.5°	7.2	3.6	1.8	3.6	7.2
65°	5.4	2.7	1.8	2.7	5.4
67.5°	3.6	1.8	0.9	1.8	3.6
70°	2.7	1.8	0.9	1.8	2.7
72.5°	1.8	0.9	0.9	0.9	1.8
75°	0.9	0.9	0.9	0.9	0.9
77.5°	0.9	0.9	0.0	0.0	0.9
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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