

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: P885730

Luminaire Tested: ML104LSFL95FS1E-TIR1D40FL-TL1SDSL-340LM-3500K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885730
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-143)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D40FL-TL1SDSL-340LM-3500K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3500K CCT
Ballast/Driver: -

Summary

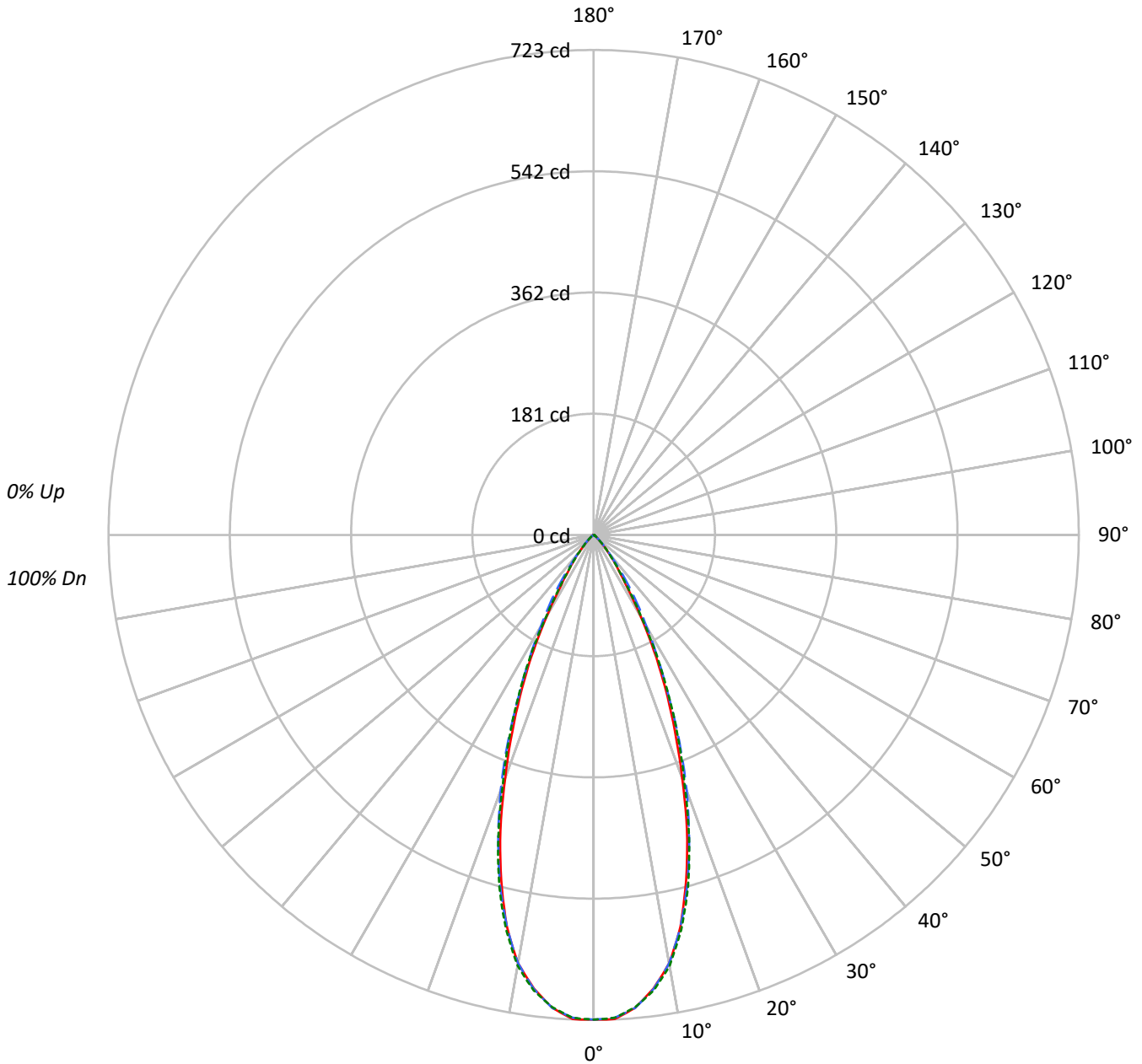
Lumens per Lamp: N/A
Luminaire Lumens: 401.1 lumens
Efficiency: N/A
Efficacy: 65.8 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.69 / 0.68
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

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	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95		
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89		
3	104	99	94	91	102	97	93	90	95	91	88	92	89	87	90	88	86	84		
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80		
5	96	88	83	79	94	87	82	79	85	81	78	84	80	77	82	79	77	75		
6	92	84	78	74	90	83	78	74	81	77	74	80	76	73	79	75	73	71		
7	88	79	74	70	86	79	74	70	78	73	70	76	72	69	75	72	69	68		
8	84	76	70	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65		
9	81	72	67	63	80	72	67	63	71	66	63	70	66	63	69	65	63	61		
10	78	69	64	60	77	69	64	60	68	63	60	67	63	60	66	63	60	59		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1120042	1120042	1120042
5°	1101292	1101292	1099736
10°	1020535	1020535	1026673
15°	854660	865733	872152
20°	635220	667880	653199
25°	431668	450310	453730
30°	248067	281715	260417
35°	125454	162920	129239
40°	68189	74057	68189
45°	28277	36827	30470
50°	16639	16639	16639
55°	10809	8107	10809
60°	6200	3100	6200
65°	3668	3668	7335
70°	4532	4532	4532
75°	5989	0	5989
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 36827 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.7	16.4
10°-20°	147.4	36.7
20°-30°	120.2	30.0
30°-40°	50.0	12.5
40°-50°	13.0	3.2
50°-60°	3.2	0.8
60°-70°	1.2	0.3
70°-80°	0.4	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°	333.2	83.1
0°-40°	383.2	95.5
0°-60°	399.4	99.6
0°-90°	401.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	401.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	723	723	723	723	723	
5°	708	708	708	709	707	66
15°	533	534	540	542	544	146
25°	252	259	263	266	265	115
35°	66	72	86	73	68	45
45°	13	15	17	15	14	12
55°	4	3	3	3	4	4
65°	1	1	1	1	2	1
75°	1	0	0	0	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°	722.6	722.6	722.6	722.6	722.6
2.5°	722.6	722.6	720.6	721.6	720.6
5°	707.8	707.8	707.8	708.8	706.8
7.5°	682.0	684.0	683.0	683.0	685.0
10°	648.4	648.4	648.4	649.4	652.3
12.5°	597.9	598.9	597.9	600.9	602.8
15°	532.6	533.6	539.5	541.5	543.5
17.5°	462.3	465.2	473.2	474.2	473.2
20°	385.1	393.0	404.9	401.9	396.0
22.5°	315.8	320.7	333.6	328.6	329.6
25°	252.4	259.4	263.3	266.3	265.3
27.5°	194.0	202.9	205.9	208.9	204.9
30°	138.6	149.5	157.4	156.4	145.5
32.5°	93.0	105.9	119.8	108.9	99.0
35°	66.3	72.3	86.1	73.3	68.3
37.5°	48.5	50.5	56.4	50.5	48.5
40°	33.7	35.6	36.6	35.6	33.7
42.5°	21.8	23.8	24.7	23.8	21.8
45°	12.9	14.8	16.8	14.8	13.9
47.5°	8.9	7.9	10.9	8.9	9.9
50°	6.9	5.9	6.9	6.9	6.9
52.5°	4.9	4.9	4.0	4.9	4.9
55°	4.0	3.0	3.0	3.0	4.0
57.5°	3.0	2.0	2.0	3.0	3.0
60°	2.0	2.0	1.0	2.0	2.0
62.5°	2.0	1.0	1.0	2.0	2.0
65°	1.0	1.0	1.0	1.0	2.0
67.5°	1.0	1.0	1.0	1.0	1.0
70°	1.0	1.0	1.0	1.0	1.0
72.5°	1.0	1.0	0.0	1.0	1.0
75°	1.0	0.0	0.0	0.0	1.0
77.5°	0.0	0.0	0.0	0.0	1.0
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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