

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: P885671

Luminaire Tested: ML104LSFL95FS1E-TIR1D25NFL-TL1SDSL-340LM-4000K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885671
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-137)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D25NFL-TL1SDSL-340LM-4000K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 324.6 lumens
Efficiency: N/A
Efficacy: 53.2 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.47 / 0.55
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

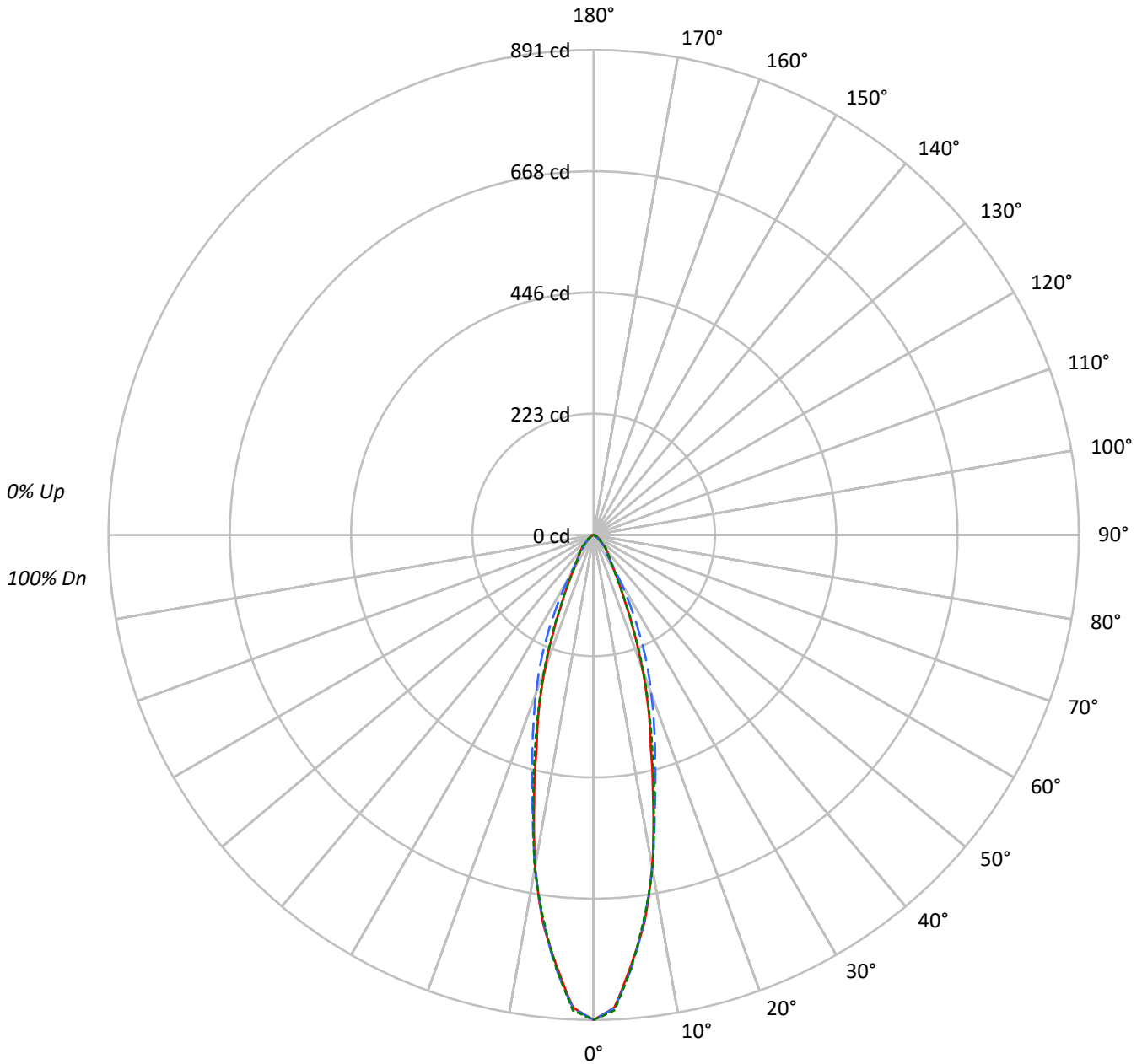
Input Watts (W): 6.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	114	111	109	107	112	109	107	105	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	85	98	92	88	84	90	86	83	88	85	82	86	83	81	80								
5	96	88	83	79	94	87	83	79	86	82	78	84	81	78	83	80	77	76								
6	92	84	79	75	91	83	78	75	82	78	74	81	77	74	79	76	73	72								
7	88	80	75	71	87	80	75	71	78	74	71	77	73	70	76	73	70	69								
8	85	77	71	68	84	76	71	68	75	71	67	74	70	67	73	70	67	66								
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63								
10	79	71	65	62	78	70	65	62	69	65	62	69	65	62	68	64	62	60								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1381219	1381219	1381219
5°	1232458	1242260	1238993
10°	974891	974891	979770
15°	650704	698042	671083
20°	429198	509033	437775
25°	236015	336920	241317
30°	133877	167705	130119
35°	91773	81744	93665
40°	74664	61714	76687
45°	50856	46252	50856
50°	35448	30384	35448
55°	28375	11350	28375
60°	22940	9920	22940
65°	15404	7702	15404
70°	9517	4985	9517
75°	6588	6588	6588
80°	9819	0	9819
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 50856 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	21.7
10°-20°	118.3	36.4
20°-30°	76.1	23.4
30°-40°	31.9	9.8
40°-50°	16.8	5.2
50°-60°	6.6	2.0
60°-70°	3.0	0.9
70°-80°	1.3	0.4
80°-90°	0.1	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°	264.9	81.6
0°-40°	296.8	91.4
0°-60°	320.2	98.6
0°-90°	324.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	324.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	891	891	891	891	891	
5°	792	793	798	794	796	71
15°	406	422	435	427	418	114
25°	138	153	197	157	141	67
35°	48	51	43	50	50	32
45°	23	21	21	22	23	18
55°	10	6	4	6	10	9
65°	4	3	2	3	4	4
75°	1	1	1	1	1	2
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°	891.1	891.1	891.1	891.1	891.1
2.5°	869.0	871.1	870.1	871.1	874.3
5°	792.1	793.2	798.4	794.2	796.3
7.5°	717.3	713.1	713.1	714.2	710.0
10°	619.4	615.2	619.4	617.3	622.5
12.5°	504.6	510.9	518.3	516.1	510.9
15°	405.5	422.4	435.0	426.6	418.2
17.5°	333.9	344.4	368.7	349.7	337.1
20°	260.2	276.0	308.6	281.2	265.4
22.5°	193.8	213.8	253.9	217.0	198.0
25°	138.0	152.7	197.0	157.0	141.1
27.5°	101.1	110.6	144.3	112.7	98.0
30°	74.8	84.3	93.7	82.2	72.7
32.5°	57.9	65.3	59.0	63.2	59.0
35°	48.5	50.6	43.2	49.5	49.5
37.5°	42.1	39.0	35.8	39.0	43.2
40°	36.9	31.6	30.5	32.7	37.9
42.5°	30.5	27.4	25.3	27.4	31.6
45°	23.2	21.1	21.1	22.1	23.2
47.5°	16.9	13.7	17.9	14.7	17.9
50°	14.7	9.5	12.6	9.5	14.7
52.5°	12.6	8.4	7.4	8.4	12.6
55°	10.5	6.3	4.2	6.3	10.5
57.5°	8.4	5.3	3.2	5.3	8.4
60°	7.4	4.2	3.2	4.2	7.4
62.5°	5.3	3.2	2.1	4.2	5.3
65°	4.2	3.2	2.1	3.2	4.2
67.5°	3.2	2.1	1.1	2.1	3.2
70°	2.1	2.1	1.1	2.1	2.1
72.5°	2.1	1.1	1.1	1.1	2.1
75°	1.1	1.1	1.1	1.1	1.1
77.5°	1.1	1.1	1.1	1.1	1.1
80°	1.1	1.1	0.0	1.1	1.1
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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