

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: P885734

Luminaire Tested: ML104LSFL95FS1E-TIR1D40FL-TL1SDSLB-340LM-3000K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885734
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-146)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D40FL-TL1SDSLB-340LM-3000K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 387.5 lumens
Efficiency: N/A
Efficacy: 63.5 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

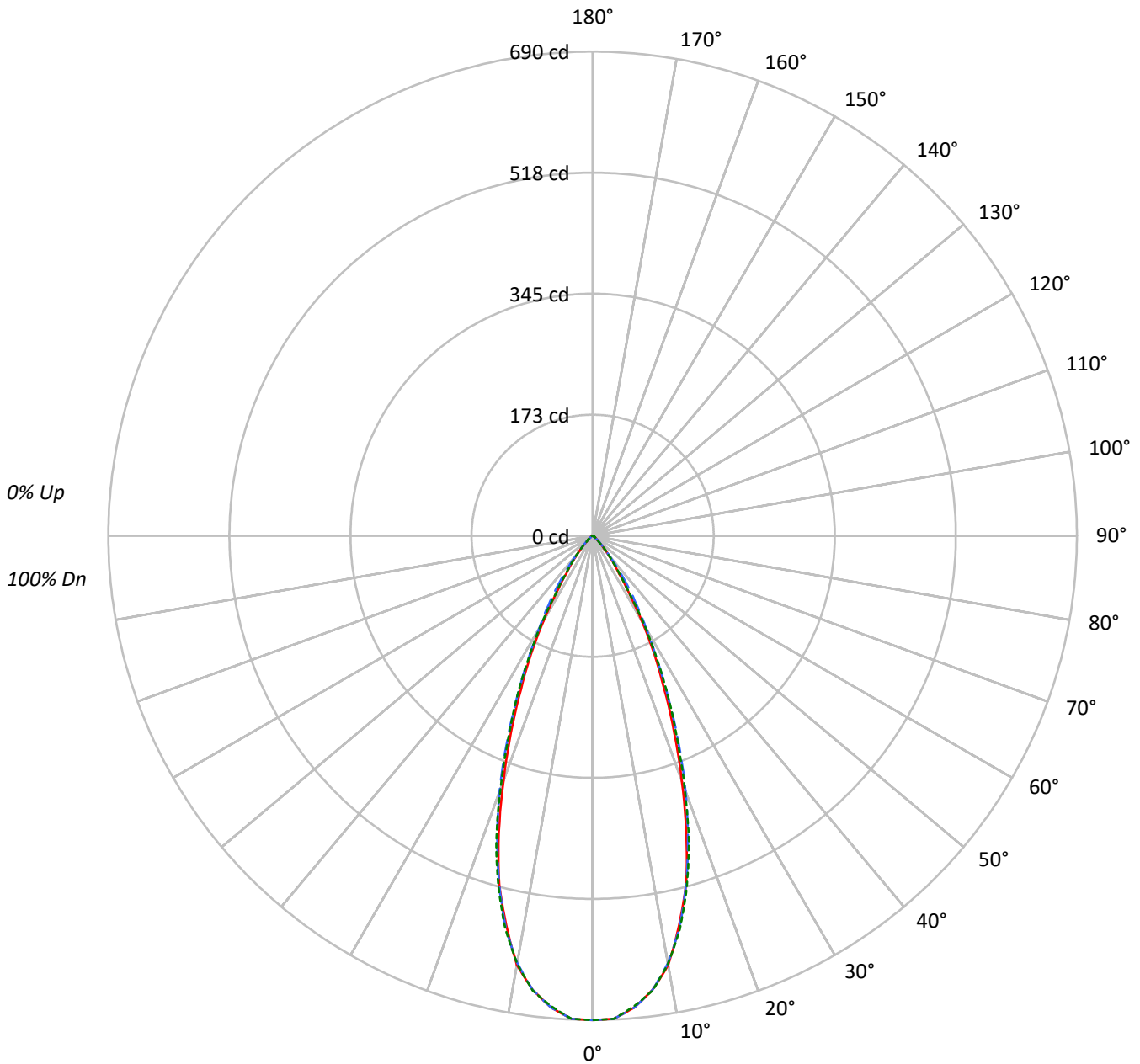
Input Watts (W): 6.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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					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	112	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	90	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	84	82	86	83	81	79								
5	95	88	83	79	94	87	82	79	85	81	78	84	80	77	82	79	77	75								
6	91	83	78	74	90	83	78	74	81	77	73	80	76	73	79	75	73	71								
7	88	79	74	70	86	79	74	70	77	73	70	76	72	69	75	72	69	68								
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64								
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61								
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1069821	1069821	1069821
5°	1050569	1050569	1047612
10°	977409	973002	974419
15°	825455	825455	831392
20°	612457	638684	632416
25°	412684	436628	438167
30°	249320	271155	266144
35°	123940	162731	129239
40°	68189	73854	70010
45°	28716	36827	30689
50°	18085	15674	18085
55°	12701	7567	12701
60°	8680	2790	8680
65°	6969	3301	6969
70°	4079	0	4079
75°	0	0	0
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°	62.7	16.2
10°-20°	141.0	36.4
20°-30°	116.0	29.9
30°-40°	49.9	12.9
40°-50°	13.2	3.4
50°-60°	3.4	0.9
60°-70°	1.2	0.3
70°-80°	0.1	0.0
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°	319.6	82.5
0°-40°	369.5	95.4
0°-60°	386.1	99.6
0°-90°	387.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	387.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	690	690	690	690	690	
5°	675	674	675	673	673	63
15°	514	514	514	516	518	140
25°	241	247	255	256	256	111
35°	66	72	86	75	68	45
45°	13	15	17	15	14	12
55°	5	4	3	4	5	4
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°	690.2	690.2	690.2	690.2	690.2
2.5°	689.2	690.2	689.2	689.2	689.2
5°	675.2	674.3	675.2	673.3	673.3
7.5°	652.8	651.8	652.8	652.8	653.7
10°	621.0	616.3	618.2	621.0	619.1
12.5°	568.6	572.3	572.3	574.2	574.2
15°	514.4	514.4	514.4	516.2	518.1
17.5°	444.2	446.1	451.7	453.6	456.4
20°	371.3	377.8	387.2	385.3	383.4
22.5°	303.9	307.7	319.8	318.0	315.2
25°	241.3	246.9	255.3	256.2	256.2
27.5°	189.8	195.5	198.3	202.9	198.3
30°	139.3	149.6	151.5	155.2	148.7
32.5°	94.5	103.8	116.9	110.4	98.2
35°	65.5	72.0	86.0	74.8	68.3
37.5°	46.8	49.6	58.0	51.4	48.6
40°	33.7	35.5	36.5	36.5	34.6
42.5°	22.4	23.4	24.3	24.3	23.4
45°	13.1	15.0	16.8	15.0	14.0
47.5°	9.4	9.4	10.3	9.4	9.4
50°	7.5	6.5	6.5	6.5	7.5
52.5°	5.6	4.7	3.7	4.7	5.6
55°	4.7	3.7	2.8	3.7	4.7
57.5°	3.7	2.8	1.9	2.8	3.7
60°	2.8	1.9	0.9	1.9	2.8
62.5°	1.9	1.9	0.9	1.9	1.9
65°	1.9	0.9	0.9	0.9	1.9
67.5°	0.9	0.9	0.9	0.9	0.9
70°	0.9	0.9	0.0	0.9	0.9
72.5°	0.9	0.0	0.0	0.0	0.9
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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