

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: P885736

Luminaire Tested: ML104LSFL95FS1E-TIR1D40FL-TL1SDSLB-340LM-4000K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885736
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-4000K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D 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: 436.4 lumens
Efficiency: N/A
Efficacy: 71.5 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

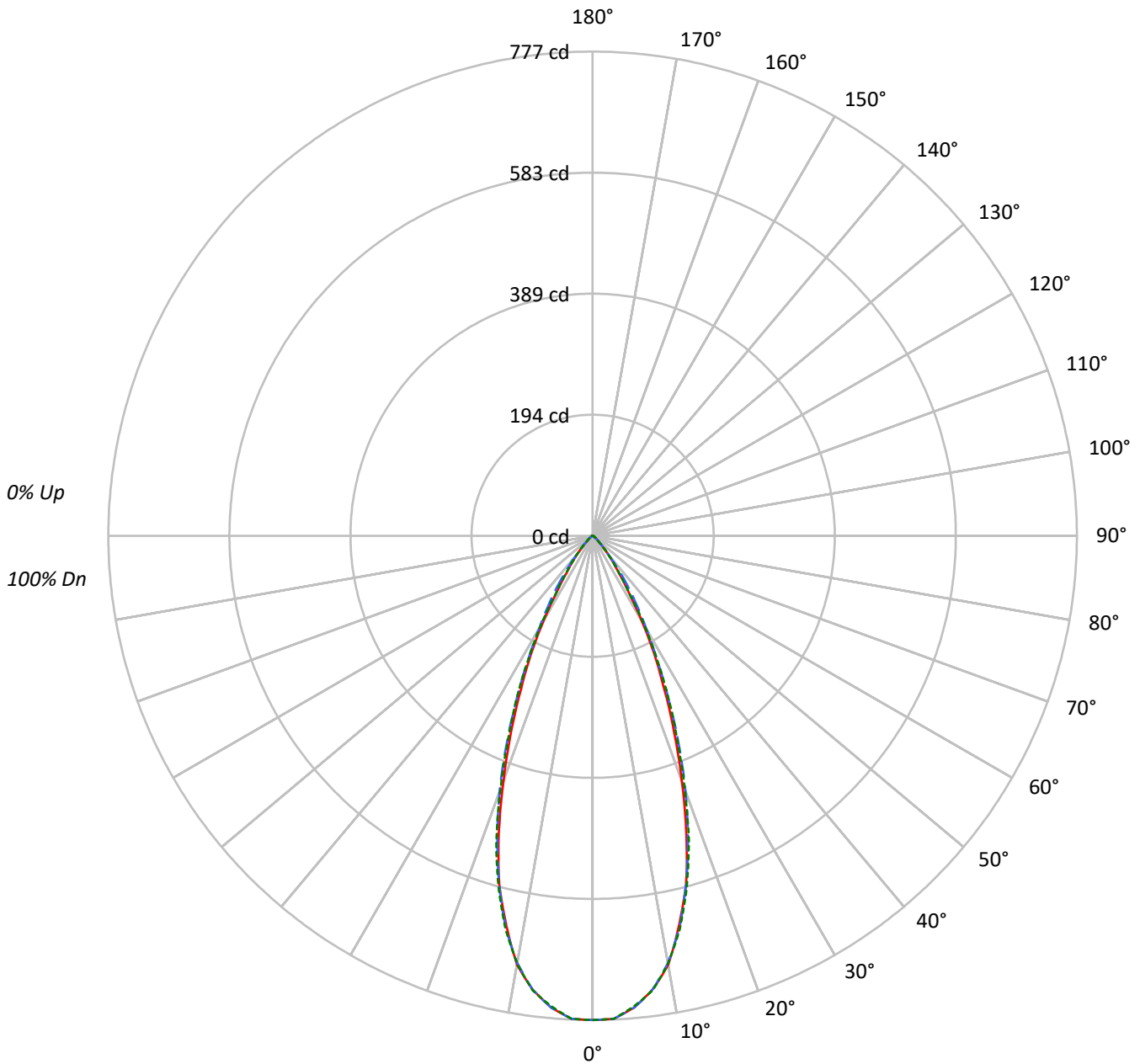
Input Watts (W): 6.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	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°	1204673	1204673	1204673
5°	1182979	1182979	1179711
10°	1100490	1095611	1097185
15°	929439	929439	936179
20°	689653	719179	712251
25°	464676	491698	493408
30°	280820	305341	299613
35°	139457	183356	145512
40°	76687	83162	78913
45°	32223	41649	34634
50°	20256	17844	20256
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: 41649 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.6	16.2
10°-20°	158.8	36.4
20°-30°	130.6	29.9
30°-40°	56.2	12.9
40°-50°	14.8	3.4
50°-60°	3.9	0.9
60°-70°	1.4	0.3
70°-80°	0.2	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°	359.9	82.5
0°-40°	416.1	95.3
0°-60°	434.8	99.6
0°-90°	436.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	436.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	777	777	777	777	777	
5°	760	759	760	758	758	71
15°	579	579	579	581	583	157
25°	272	278	288	288	288	126
35°	74	81	97	84	77	50
45°	15	17	19	17	16	14
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°	777.2	777.2	777.2	777.2	777.2
2.5°	776.1	777.2	776.1	776.1	776.1
5°	760.3	759.3	760.3	758.2	758.2
7.5°	735.0	734.0	735.0	735.0	736.1
10°	699.2	694.0	696.1	699.2	697.1
12.5°	640.3	644.5	644.5	646.6	646.6
15°	579.2	579.2	579.2	581.3	583.4
17.5°	500.2	502.3	508.6	510.7	513.9
20°	418.1	425.4	436.0	433.9	431.8
22.5°	342.2	346.5	360.1	358.0	354.9
25°	271.7	278.0	287.5	288.5	288.5
27.5°	213.8	220.1	223.2	228.5	223.2
30°	156.9	168.5	170.6	174.8	167.4
32.5°	106.4	116.9	131.6	124.3	110.6
35°	73.7	81.1	96.9	84.2	76.9
37.5°	52.7	55.8	65.3	57.9	54.8
40°	37.9	40.0	41.1	41.1	39.0
42.5°	25.3	26.3	27.4	27.4	26.3
45°	14.7	16.8	19.0	16.8	15.8
47.5°	10.5	10.5	11.6	10.5	10.5
50°	8.4	7.4	7.4	7.4	8.4
52.5°	6.3	5.3	4.2	5.3	6.3
55°	5.3	4.2	3.2	4.2	5.3
57.5°	4.2	3.2	2.1	3.2	4.2
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	0.0	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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