

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: P885729

Luminaire Tested: ML104LSFL95FS1E-TIR1D40FL-TL1SDSL-340LM-3000K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885729
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-3000K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT
Ballast/Driver: -

Summary

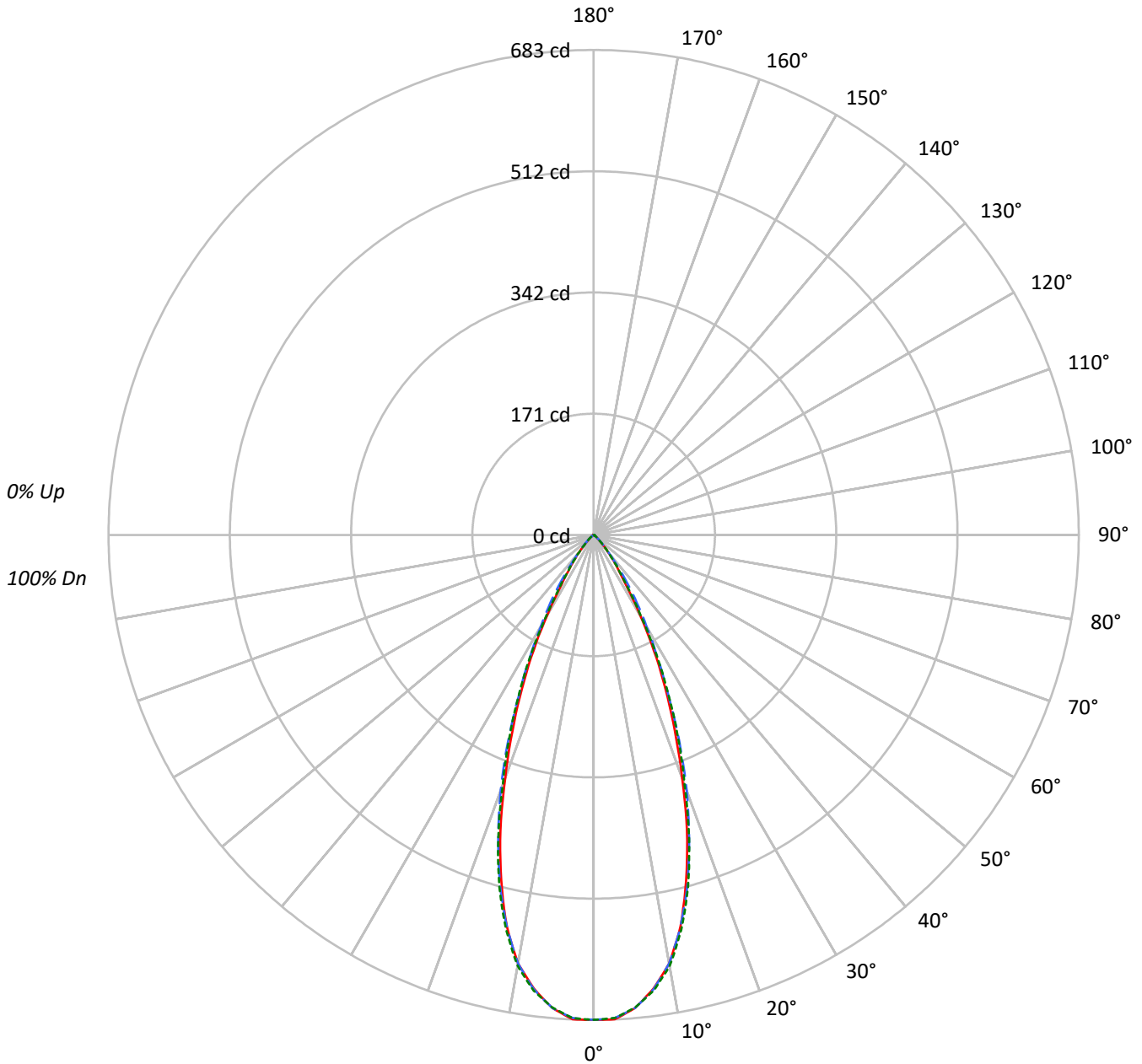
Lumens per Lamp: N/A
Luminaire Lumens: 379.0 lumens
Efficiency: N/A
Efficacy: 62.1 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.69 / 0.68
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

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	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°	1058506	1058506	1058506
5°	1040611	1040611	1039210
10°	964345	964345	970326
15°	807643	818073	824171
20°	600250	631096	617240
25°	407895	425511	428761
30°	234464	266144	246098
35°	118642	154027	122048
40°	64344	70010	64344
45°	26743	34854	28716
50°	15674	15674	15674
55°	9999	7567	9999
60°	5890	2790	5890
65°	3301	3301	6969
70°	4079	4079	4079
75°	5390	0	5390
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 34854 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.1	16.4
10°-20°	139.2	36.7
20°-30°	113.5	30.0
30°-40°	47.2	12.5
40°-50°	12.3	3.2
50°-60°	3.1	0.8
60°-70°	1.1	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°	314.9	83.1
0°-40°	362.1	95.5
0°-60°	377.4	99.6
0°-90°	379.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	379.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	683	683	683	683	683	
5°	669	669	669	670	668	62
15°	503	504	510	512	514	138
25°	238	245	249	252	251	109
35°	63	68	81	69	64	42
45°	12	14	16	14	13	11
55°	4	3	3	3	4	3
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°	682.9	682.9	682.9	682.9	682.9
2.5°	682.9	682.9	681.0	681.9	681.0
5°	668.8	668.8	668.8	669.8	667.9
7.5°	644.5	646.4	645.5	645.5	647.3
10°	612.7	612.7	612.7	613.6	616.5
12.5°	565.0	565.9	565.0	567.8	569.7
15°	503.3	504.2	509.8	511.7	513.6
17.5°	436.9	439.7	447.1	448.1	447.1
20°	363.9	371.4	382.6	379.8	374.2
22.5°	298.4	303.1	315.2	310.6	311.5
25°	238.5	245.1	248.8	251.6	250.7
27.5°	183.3	191.8	194.6	197.4	193.6
30°	131.0	141.3	148.7	147.8	137.5
32.5°	87.9	100.1	113.2	102.9	93.5
35°	62.7	68.3	81.4	69.2	64.5
37.5°	45.8	47.7	53.3	47.7	45.8
40°	31.8	33.7	34.6	33.7	31.8
42.5°	20.6	22.5	23.4	22.5	20.6
45°	12.2	14.0	15.9	14.0	13.1
47.5°	8.4	7.5	10.3	8.4	9.4
50°	6.5	5.6	6.5	6.5	6.5
52.5°	4.7	4.7	3.7	4.7	4.7
55°	3.7	2.8	2.8	2.8	3.7
57.5°	2.8	1.9	1.9	2.8	2.8
60°	1.9	1.9	0.9	1.9	1.9
62.5°	1.9	0.9	0.9	1.9	1.9
65°	0.9	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	0.9	0.9	0.9
72.5°	0.9	0.9	0.0	0.9	0.9
75°	0.9	0.0	0.0	0.0	0.9
77.5°	0.0	0.0	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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