

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: P885728

Luminaire Tested: ML104LSFL95FS1E-TIR1D40FL-TL1SDSL-340LM-2700K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885728
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-2700K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 2700K CCT
Ballast/Driver: -

Summary

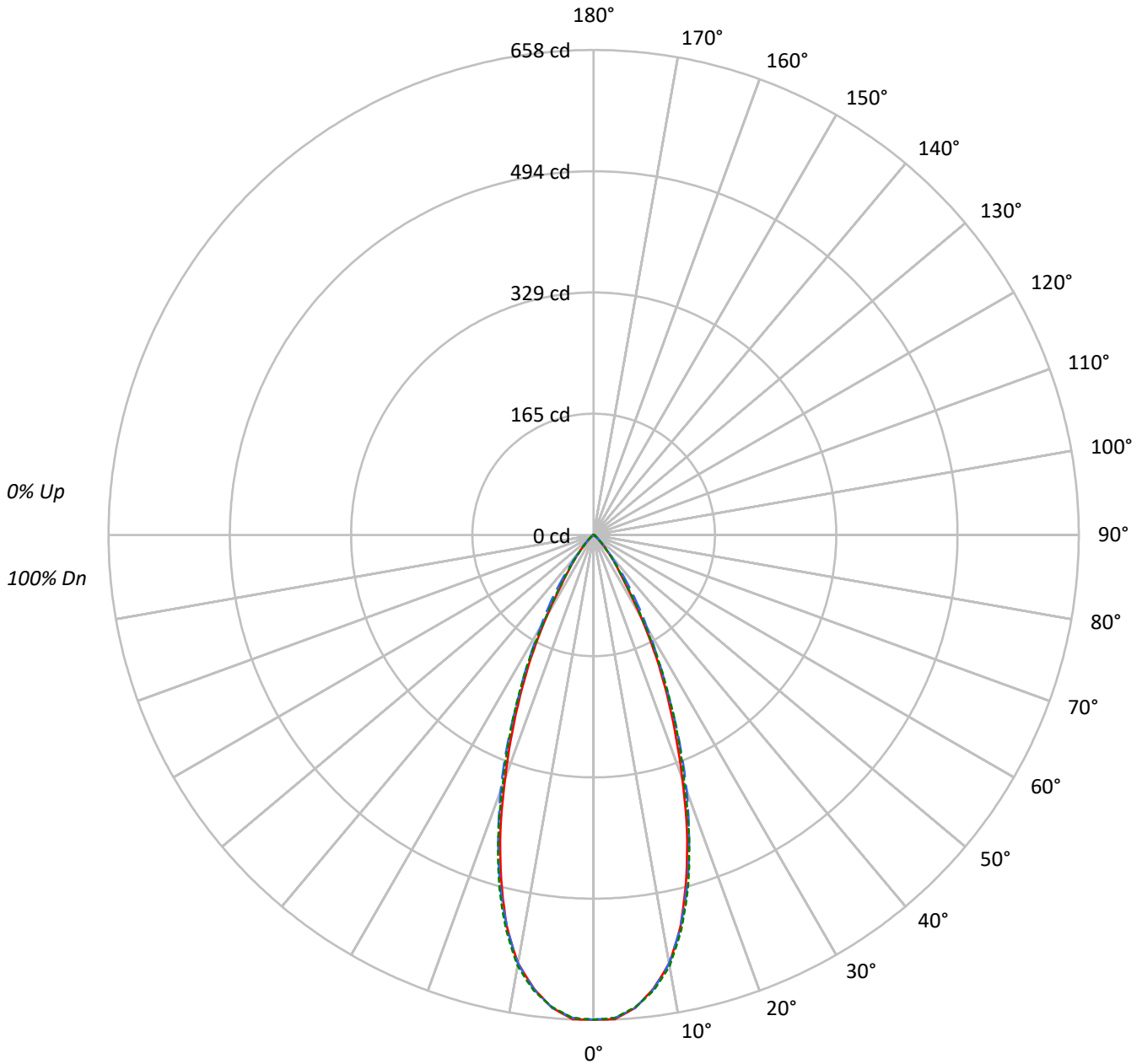
Lumens per Lamp: N/A
Luminaire Lumens: 365.0 lumens
Efficiency: N/A
Efficacy: 59.8 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.69 / 0.68
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

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					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°	1019446	1019446	1019446
5°	1002335	1002335	1000934
10°	928775	928775	934441
15°	777796	787905	793682
20°	578147	607838	594477
25°	392845	409948	413026
30°	225694	256479	236970
35°	114290	148350	117696
40°	61916	67379	61916
45°	25647	33538	27620
50°	15192	15192	15192
55°	9729	7296	9729
60°	5580	2790	5580
65°	3301	3301	6602
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: 33538 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.8	16.4
10°-20°	134.1	36.7
20°-30°	109.4	30.0
30°-40°	45.5	12.5
40°-50°	11.8	3.2
50°-60°	2.9	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°	303.3	83.1
0°-40°	348.7	95.5
0°-60°	363.5	99.6
0°-90°	365.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	365.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	658	658	658	658	658	
5°	644	644	644	645	643	60
15°	485	486	491	493	495	133
25°	230	236	240	242	242	105
35°	60	66	78	67	62	41
45°	12	14	15	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°	657.7	657.7	657.7	657.7	657.7
2.5°	657.7	657.7	655.9	656.8	655.9
5°	644.2	644.2	644.2	645.1	643.3
7.5°	620.8	622.6	621.7	621.7	623.5
10°	590.1	590.1	590.1	591.0	593.7
12.5°	544.2	545.1	544.2	546.9	548.7
15°	484.7	485.6	491.0	492.8	494.6
17.5°	420.8	423.5	430.7	431.6	430.7
20°	350.5	357.7	368.5	365.8	360.4
22.5°	287.4	291.9	303.6	299.1	300.0
25°	229.7	236.1	239.7	242.4	241.5
27.5°	176.6	184.7	187.4	190.1	186.5
30°	126.1	136.0	143.3	142.4	132.4
32.5°	84.7	96.4	109.0	99.1	90.1
35°	60.4	65.8	78.4	66.7	62.2
37.5°	44.1	45.9	51.4	45.9	44.1
40°	30.6	32.4	33.3	32.4	30.6
42.5°	19.8	21.6	22.5	21.6	19.8
45°	11.7	13.5	15.3	13.5	12.6
47.5°	8.1	7.2	9.9	8.1	9.0
50°	6.3	5.4	6.3	6.3	6.3
52.5°	4.5	4.5	3.6	4.5	4.5
55°	3.6	2.7	2.7	2.7	3.6
57.5°	2.7	1.8	1.8	2.7	2.7
60°	1.8	1.8	0.9	1.8	1.8
62.5°	1.8	0.9	0.9	1.8	1.8
65°	0.9	0.9	0.9	0.9	1.8
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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