

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: P885717

Luminaire Tested: ML104LSFL95FS1E-TIR1D40FL-TL1SDMBB-340LM-5000K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885717
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D40FL-TL1SDMBB-340LM-5000K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE BLACK BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 5000K CCT
Ballast/Driver: -

Summary

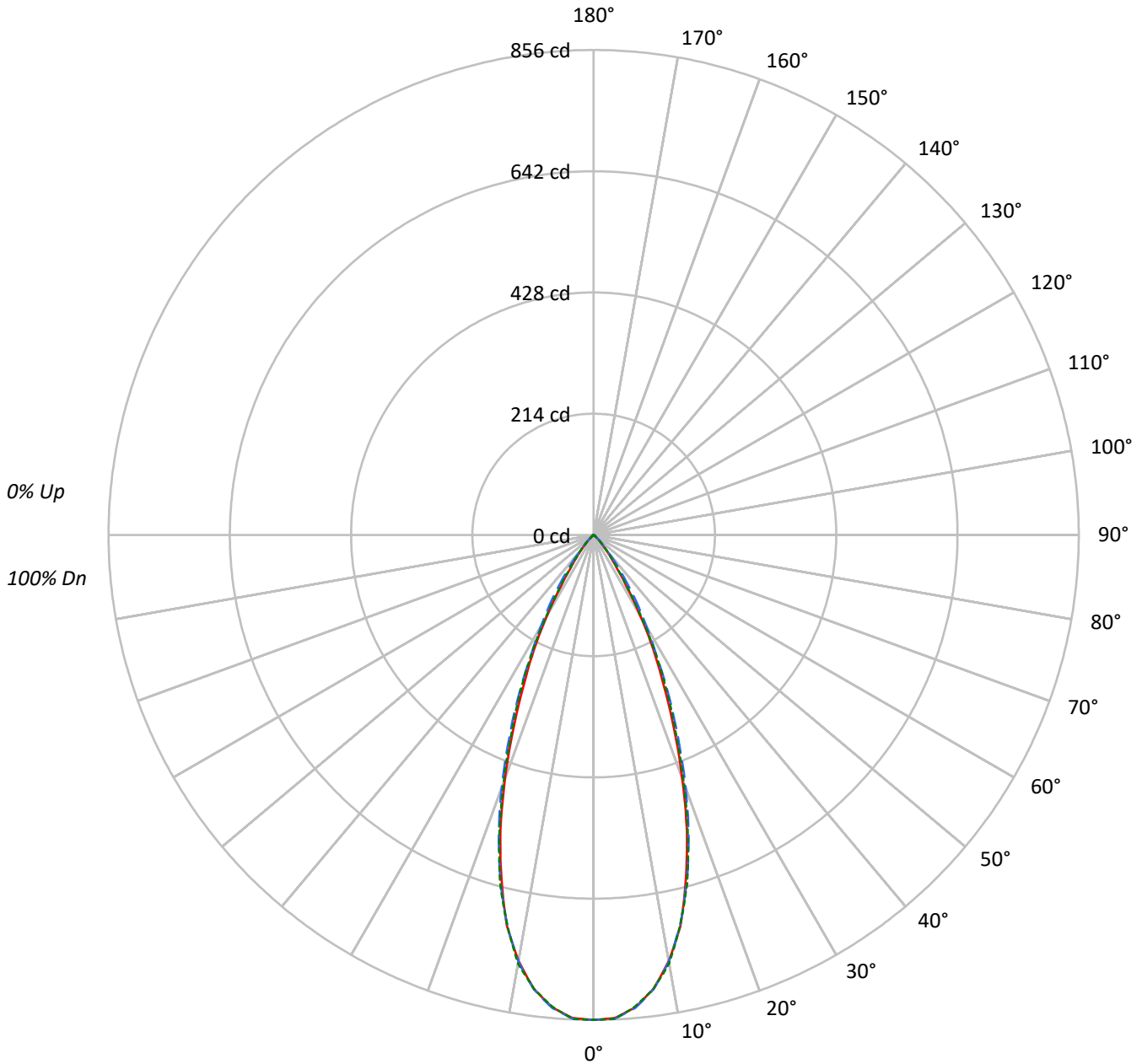
Lumens per Lamp: N/A
Luminaire Lumens: 462.3 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

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	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	110	108	106	106	104	103	102	101	99	98	97	97	95								
2	109	105	101	98	107	103	100	97	100	98	95	97	95	93	95	93	91	90								
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	88	86	85								
4	100	94	89	85	99	93	88	85	91	87	84	89	85	83	87	84	82	80								
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76								
6	92	84	79	75	91	84	79	75	82	78	75	81	77	74	80	76	74	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	70	67	74	70	67	73	69	67	66								
9	81	73	68	64	80	73	68	64	72	67	64	71	67	64	70	66	64	63								
10	78	70	65	61	77	69	65	61	69	64	61	68	64	61	67	64	61	60								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1326659	1326659	1326659
5°	1302630	1304498	1300763
10°	1201536	1203425	1208934
15°	1009032	1018339	1022191
20°	753158	782189	766684
25°	498539	536678	522654
30°	293349	331114	303909
35°	133023	188276	143998
40°	66368	80531	71021
45°	23017	38580	23017
50°	8440	14227	8440
55°	3243	3243	3243
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 38580 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	16.8
10°-20°	173.5	37.5
20°-30°	140.4	30.4
30°-40°	57.1	12.3
40°-50°	12.3	2.7
50°-60°	1.3	0.3
60°-70°	0.0	0.0
70°-80°	0.0	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°	391.6	84.7
0°-40°	448.7	97.0
0°-60°	462.3	100.0
0°-90°	462.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	462.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	856	856	856	856	856	
5°	837	837	838	836	836	78
15°	629	633	635	632	637	172
25°	292	301	314	306	306	135
35°	70	82	100	86	76	50
45°	10	13	18	14	10	10
55°	1	1	1	1	1	1
65°	0	0	0	0	0	0
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°	855.9	855.9	855.9	855.9	855.9
2.5°	853.6	853.6	854.7	853.6	854.7
5°	837.2	837.2	838.4	836.0	836.0
7.5°	807.9	807.9	809.1	809.1	807.9
10°	763.4	765.8	764.6	766.9	768.1
12.5°	707.2	706.0	704.9	707.2	704.9
15°	628.8	633.4	634.6	632.3	637.0
17.5°	546.8	550.3	557.3	557.3	552.7
20°	456.6	468.4	474.2	469.5	464.8
22.5°	370.0	379.4	389.9	386.4	379.4
25°	291.5	300.9	313.8	305.6	305.6
27.5°	227.2	235.3	240.0	242.4	237.7
30°	163.9	175.6	185.0	181.5	169.8
32.5°	108.9	121.8	139.3	128.8	114.7
35°	70.3	82.0	99.5	85.5	76.1
37.5°	48.0	53.9	66.7	56.2	51.5
40°	32.8	37.5	39.8	37.5	35.1
42.5°	19.9	23.4	25.8	24.6	21.1
45°	10.5	12.9	17.6	14.1	10.5
47.5°	4.7	7.0	10.5	7.0	4.7
50°	3.5	3.5	5.9	3.5	3.5
52.5°	2.3	2.3	2.3	2.3	2.3
55°	1.2	1.2	1.2	1.2	1.2
57.5°	0.0	0.0	1.2	1.2	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
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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