

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: P885778

Luminaire Tested: ML104LSFL95FS1E-TIR1D55WFL-TL1SDMW-340LM-2700K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885778
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-148)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D55WFL-TL1SDMW-340LM-2700K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 2700K CCT
Ballast/Driver: -

Summary

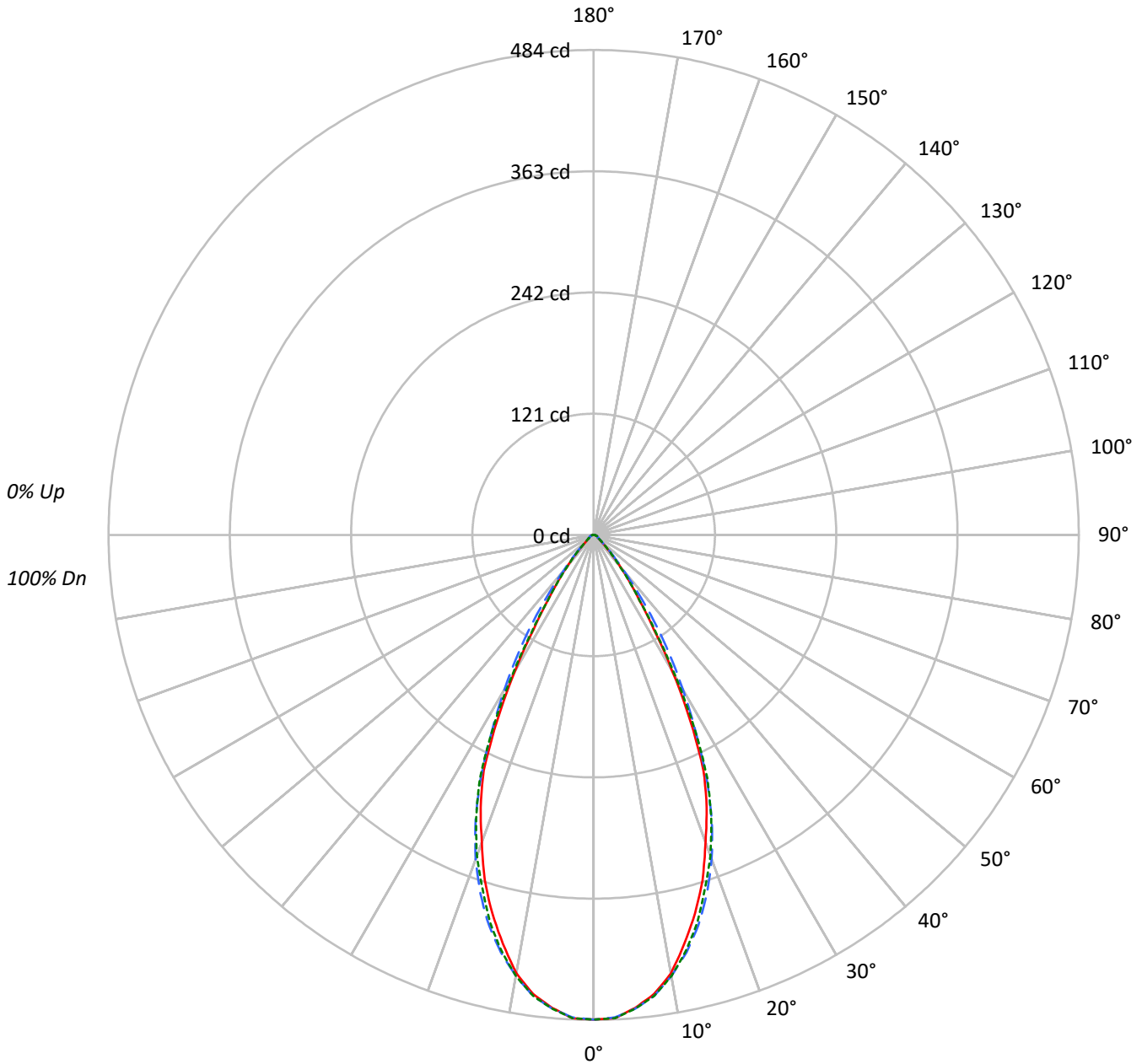
Lumens per Lamp: N/A
Luminaire Lumens: 362.7 lumens
Efficiency: N/A
Efficacy: 59.5 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 0.83 / 0.8
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93					93			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87					87			
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81					81			
4	98	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76					76			
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71					71			
6	88	80	74	70	87	79	73	69	77	73	69	76	72	68	75	71	68	67					67			
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63					63			
8	80	71	65	61	79	71	65	61	69	64	61	68	64	61	68	63	60	59					59			
9	77	67	62	58	76	67	61	58	66	61	57	65	61	57	64	60	57	56					56			
10	73	64	58	55	72	64	58	55	63	58	54	62	57	54	61	57	54	53					53			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	749743	749743	749743
5°	737203	738603	738603
10°	698981	703231	703231
15°	627275	647494	641717
20°	537900	567590	561652
25°	443640	454414	459032
30°	280462	317511	293349
35°	150053	197737	151756
40°	83769	94695	80127
45°	39457	45376	41430
50°	21703	23873	23873
55°	17025	17025	17025
60°	13950	13950	13950
65°	13204	16504	13204
70°	16315	16315	16315
75°	16170	16170	16170
80°	16067	16067	16067
85°	16006	16006	16006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 45376 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.4	12.3
10°-20°	110.8	30.6
20°-30°	118.2	32.6
30°-40°	59.1	16.3
40°-50°	16.8	4.6
50°-60°	5.9	1.6
60°-70°	4.1	1.1
70°-80°	2.6	0.7
80°-90°	0.7	0.2
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°	273.4	75.4
0°-40°	332.6	91.7
0°-60°	355.3	98.0
0°-90°	362.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	362.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	484	484	484	484	484	
5°	474	475	475	475	475	44
15°	391	395	404	401	400	109
25°	259	262	266	268	268	114
35°	79	87	104	88	80	53
45°	18	19	21	20	19	16
55°	6	6	6	6	6	6
65°	4	4	4	4	4	4
75°	3	3	3	3	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	483.7	483.7	483.7	483.7	483.7
2.5°	482.8	481.9	481.9	482.8	482.8
5°	473.8	474.7	474.7	474.7	474.7
7.5°	462.1	463.0	463.9	464.8	463.9
10°	444.1	445.0	446.8	448.6	446.8
12.5°	417.9	422.4	426.9	426.0	425.1
15°	390.9	395.4	403.5	400.8	399.9
17.5°	361.2	366.6	375.6	374.7	369.3
20°	326.1	334.2	344.1	341.4	340.5
22.5°	294.5	300.8	308.0	308.9	306.2
25°	259.4	262.1	265.7	268.4	268.4
27.5°	208.1	216.2	218.9	221.6	218.0
30°	156.7	167.5	177.4	174.7	163.9
32.5°	111.7	125.2	139.6	129.7	116.2
35°	79.3	87.4	104.5	88.3	80.2
37.5°	57.6	60.3	72.1	61.2	57.6
40°	41.4	42.3	46.8	42.3	39.6
42.5°	27.9	29.7	31.5	29.7	27.9
45°	18.0	18.9	20.7	19.8	18.9
47.5°	11.7	12.6	13.5	13.5	13.5
50°	9.0	9.0	9.9	10.8	9.9
52.5°	7.2	7.2	8.1	8.1	7.2
55°	6.3	6.3	6.3	6.3	6.3
57.5°	5.4	5.4	5.4	5.4	5.4
60°	4.5	4.5	4.5	4.5	4.5
62.5°	4.5	4.5	4.5	4.5	4.5
65°	3.6	4.5	4.5	4.5	3.6
67.5°	3.6	3.6	3.6	3.6	3.6
70°	3.6	3.6	3.6	3.6	3.6
72.5°	2.7	2.7	2.7	2.7	2.7
75°	2.7	2.7	2.7	2.7	2.7
77.5°	1.8	1.8	1.8	1.8	1.8
80°	1.8	1.8	1.8	1.8	1.8
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.9	0.9	0.9	0.9	0.9
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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