

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: P885666

Luminaire Tested: ML104LSFL95FS1E-TIR1D25NFL-TL1SDMWB-340LM-4000K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885666
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-139)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D25NFL-TL1SDMWB-340LM-4000K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT
Ballast/Driver: -

Summary

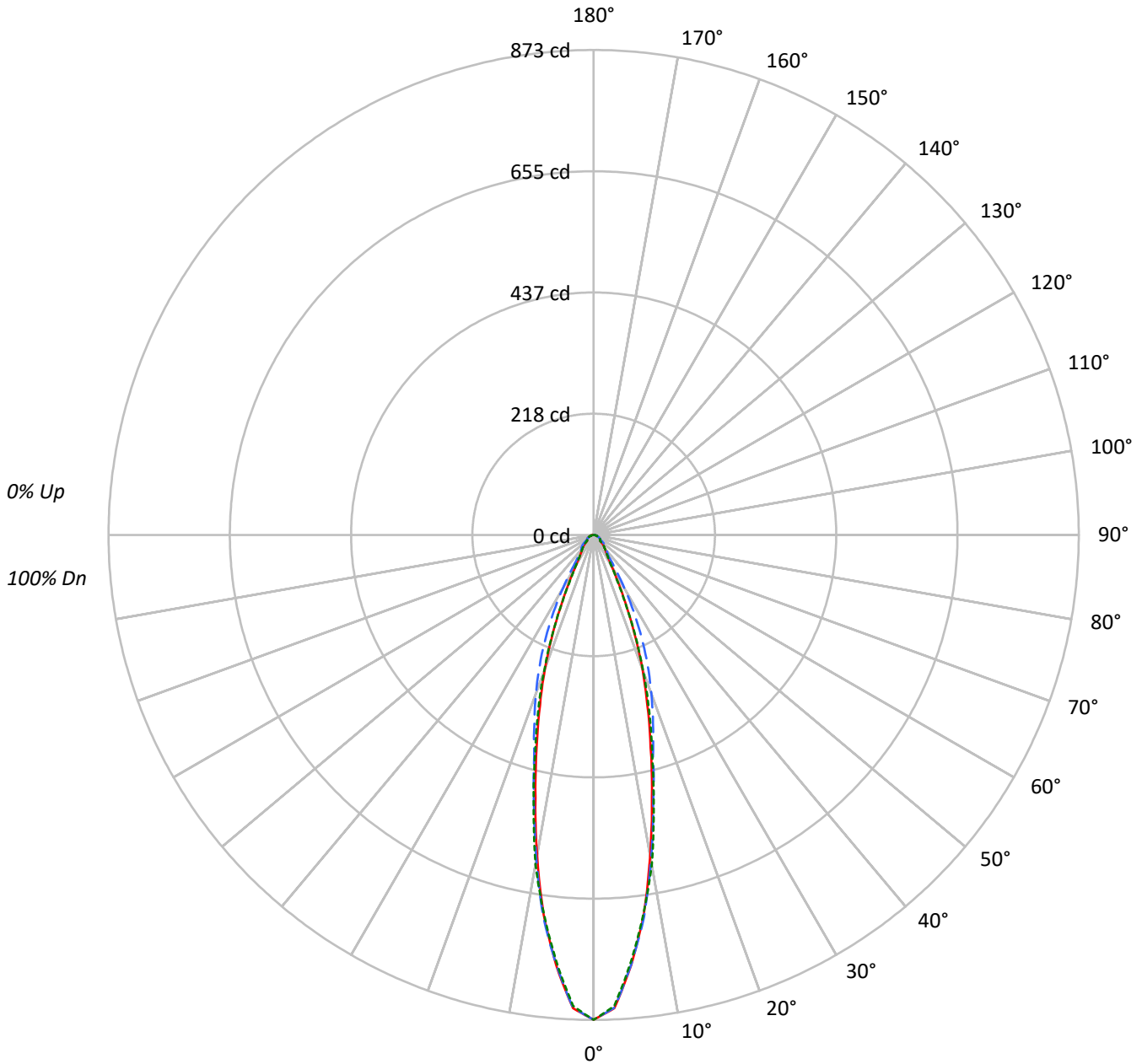
Lumens per Lamp: N/A
Luminaire Lumens: 339.8 lumens
Efficiency: N/A
Efficacy: 55.7 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.47 / 0.56
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

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					100			
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93					93			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86					86			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81					81			
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76					76			
5	93	85	80	75	92	84	79	75	83	78	74	81	77	74	79	76	73	72					72			
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68					68			
7	86	77	71	67	84	76	71	67	75	70	67	74	69	66	73	69	66	65					65			
8	82	73	68	64	81	73	67	64	72	67	63	71	66	63	70	66	63	62					62			
9	79	70	65	61	78	70	64	61	69	64	61	68	63	60	67	63	60	59					59			
10	76	67	62	58	75	67	62	58	66	61	58	65	61	58	64	61	58	56					56			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1352854	1352854	1352854
5°	1208963	1207252	1199161
10°	921377	934598	947819
15°	635299	662258	652148
20°	421940	500126	430683
25°	230542	349234	226951
30°	114905	197773	113116
35°	75689	89691	75689
40°	61714	72438	61714
45°	48444	64666	50856
50°	38100	55944	38100
55°	39725	37022	39725
60°	39060	39060	39060
65°	38510	38510	38510
70°	33536	33536	33536
75°	31741	31741	31741
80°	28564	28564	28564
85°	19563	19563	19563

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 64666 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.3	20.1
10°-20°	114.4	33.7
20°-30°	76.2	22.4
30°-40°	31.1	9.1
40°-50°	19.6	5.8
50°-60°	13.1	3.9
60°-70°	10.2	3.0
70°-80°	5.6	1.6
80°-90°	1.3	0.4
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°	259.0	76.2
0°-40°	290.0	85.3
0°-60°	322.8	95.0
0°-90°	339.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	339.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	873	873	873	873	873	
5°	777	775	776	774	771	68
15°	396	405	413	414	406	110
25°	135	158	204	161	133	64
35°	40	47	47	46	40	26
45°	22	25	30	26	23	17
55°	15	15	14	15	15	13
65°	10	10	10	10	10	10
75°	5	5	5	5	5	6
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°	872.8	872.8	872.8	872.8	872.8
2.5°	852.8	853.8	851.7	850.7	848.6
5°	777.0	774.9	775.9	773.8	770.7
7.5°	689.6	687.5	693.8	689.6	687.5
10°	585.4	587.5	593.8	592.7	602.2
12.5°	484.3	490.6	495.9	496.9	499.0
15°	395.9	405.3	412.7	413.8	406.4
17.5°	321.1	338.0	354.8	343.2	331.6
20°	255.8	274.8	303.2	279.0	261.1
22.5°	191.6	213.7	253.7	220.0	194.8
25°	134.8	157.9	204.2	161.1	132.7
27.5°	92.6	108.4	155.8	111.6	89.5
30°	64.2	80.0	110.5	80.0	63.2
32.5°	47.4	62.1	71.6	60.0	48.4
35°	40.0	47.4	47.4	46.3	40.0
37.5°	34.7	37.9	40.0	37.9	34.7
40°	30.5	32.6	35.8	32.6	30.5
42.5°	27.4	29.5	32.6	29.5	27.4
45°	22.1	25.3	29.5	26.3	23.2
47.5°	15.8	20.0	27.4	21.1	15.8
50°	15.8	15.8	23.2	15.8	15.8
52.5°	14.7	14.7	17.9	14.7	14.7
55°	14.7	14.7	13.7	14.7	14.7
57.5°	13.7	13.7	13.7	13.7	13.7
60°	12.6	12.6	12.6	12.6	12.6
62.5°	11.6	11.6	11.6	11.6	11.6
65°	10.5	10.5	10.5	10.5	10.5
67.5°	8.4	9.5	8.4	9.5	9.5
70°	7.4	7.4	7.4	7.4	7.4
72.5°	6.3	6.3	6.3	6.3	6.3
75°	5.3	5.3	5.3	5.3	5.3
77.5°	4.2	4.2	4.2	4.2	4.2
80°	3.2	3.2	3.2	3.2	3.2
82.5°	2.1	2.1	2.1	2.1	2.1
85°	1.1	1.1	1.1	1.1	1.1
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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