

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: P885670

Luminaire Tested: ML104LSFL95FS1E-TIR1D25NFL-TL1SDSL-340LM-3500K

Issue Date: 6/19/2024

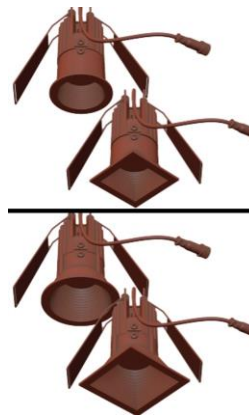
Test Information

Test Method: LM-79-2019
Report Number: P885670
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-137)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D25NFL-TL1SDSL-340LM-3500K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 305.0 lumens
Efficiency: N/A
Efficacy: 50.0 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.47 / 0.55
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

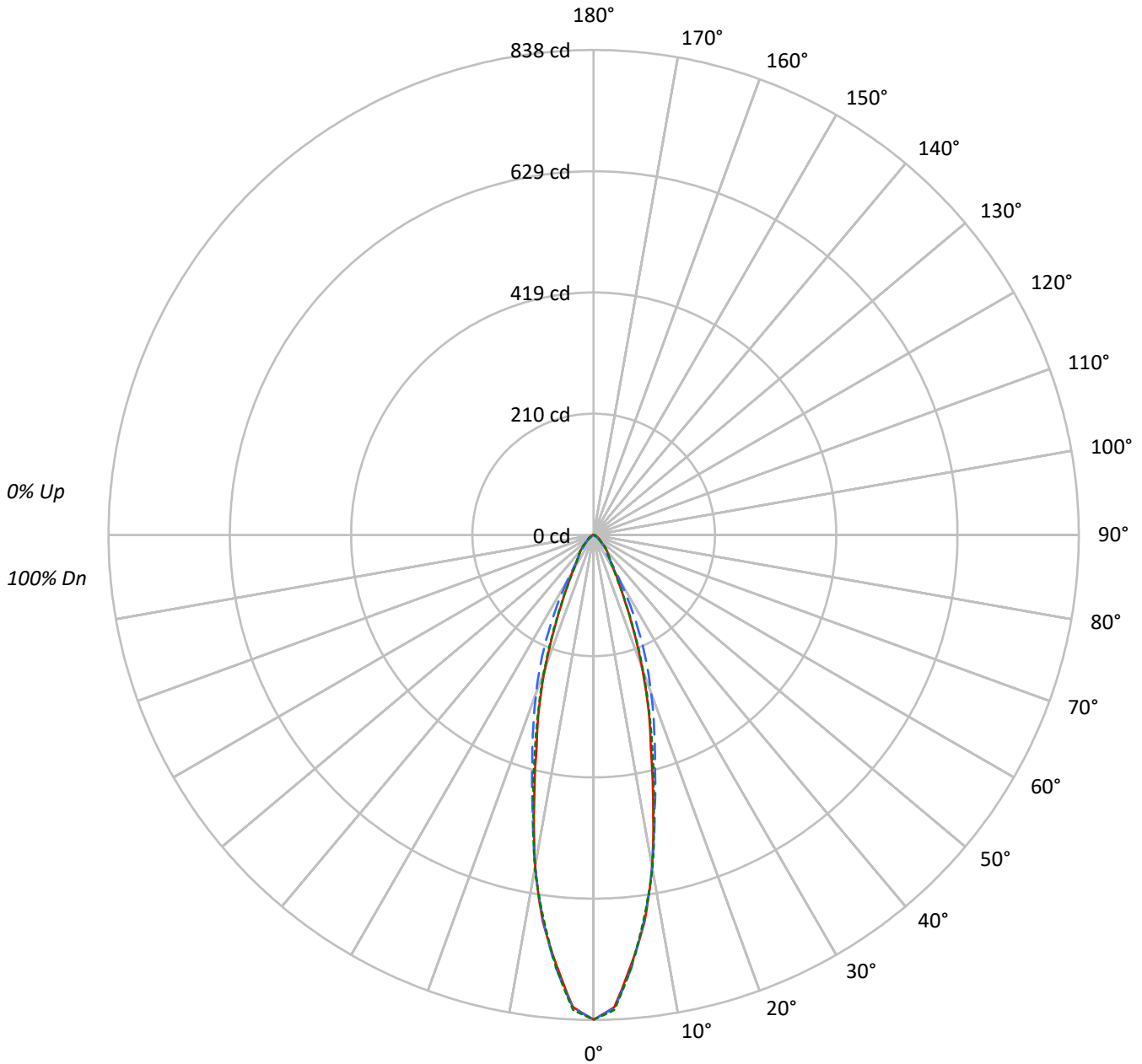
Input Watts (W): 6.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	114	111	109	107	112	109	107	105	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	85	98	92	88	84	90	86	83		88	85	82		86	83	81	80
5	96	88	83	79	94	87	83	79	86	82	78		84	81	78		83	80	77	76
6	92	84	79	75	91	83	78	75	82	78	74		81	77	74		79	76	73	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	71	67		74	70	67		73	70	67	66
9	82	73	68	65	81	73	68	65	72	68	65		71	67	64		71	67	64	63
10	79	71	65	62	78	70	65	62	69	65	62		69	65	62		68	64	62	60

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1298139	1298139	1298139
5°	1158239	1167420	1164463
10°	916183	916183	920748
15°	611549	655999	630645
20°	403301	478353	411548
25°	221820	316568	226780
30°	125823	157682	122244
35°	86096	76824	87988
40°	70010	58072	72033
45°	47787	43403	47787
50°	33518	28696	33518
55°	26753	10809	26753
60°	21390	9300	21390
65°	14671	7335	14671
70°	9064	4532	9064
75°	5989	5989	5989
80°	8926	0	8926
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 47787 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.2	21.7
10°-20°	111.2	36.4
20°-30°	71.5	23.4
30°-40°	30.0	9.8
40°-50°	15.8	5.2
50°-60°	6.2	2.0
60°-70°	2.9	0.9
70°-80°	1.2	0.4
80°-90°	0.1	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°	248.9	81.6
0°-40°	278.9	91.4
0°-60°	300.9	98.6
0°-90°	305.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	305.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	838	838	838	838	838	
5°	744	745	750	746	748	66
15°	381	397	409	401	393	107
25°	130	144	185	148	133	63
35°	46	48	41	46	46	30
45°	22	20	20	21	22	17
55°	10	6	4	6	10	9
65°	4	3	2	3	4	4
75°	1	1	1	1	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°	837.5	837.5	837.5	837.5	837.5
2.5°	816.7	818.6	817.7	818.6	821.6
5°	744.4	745.4	750.3	746.4	748.4
7.5°	674.1	670.2	670.2	671.2	667.2
10°	582.1	578.1	582.1	580.1	585.0
12.5°	474.2	480.1	487.0	485.0	480.1
15°	381.1	396.9	408.8	400.9	393.0
17.5°	313.8	323.7	346.5	328.6	316.8
20°	244.5	259.4	290.0	264.3	249.5
22.5°	182.1	200.9	238.6	203.9	186.1
25°	129.7	143.5	185.1	147.5	132.6
27.5°	95.0	103.9	135.6	105.9	92.1
30°	70.3	79.2	88.1	77.2	68.3
32.5°	54.4	61.4	55.4	59.4	55.4
35°	45.5	47.5	40.6	46.5	46.5
37.5°	39.6	36.6	33.7	36.6	40.6
40°	34.6	29.7	28.7	30.7	35.6
42.5°	28.7	25.7	23.8	25.7	29.7
45°	21.8	19.8	19.8	20.8	21.8
47.5°	15.8	12.9	16.8	13.9	16.8
50°	13.9	8.9	11.9	8.9	13.9
52.5°	11.9	7.9	6.9	7.9	11.9
55°	9.9	5.9	4.0	5.9	9.9
57.5°	7.9	4.9	3.0	4.9	7.9
60°	6.9	4.0	3.0	4.0	6.9
62.5°	4.9	3.0	2.0	4.0	4.9
65°	4.0	3.0	2.0	3.0	4.0
67.5°	3.0	2.0	1.0	2.0	3.0
70°	2.0	2.0	1.0	2.0	2.0
72.5°	2.0	1.0	1.0	1.0	2.0
75°	1.0	1.0	1.0	1.0	1.0
77.5°	1.0	1.0	1.0	1.0	1.0
80°	1.0	1.0	0.0	1.0	1.0
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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