

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: P885672

Luminaire Tested: ML104LSFL95FS1E-TIR1D25NFL-TL1SDSL-340LM-5000K

Issue Date: 6/19/2024

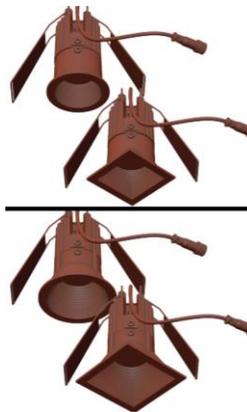
Test Information

Test Method: LM-79-2019
Report Number: P885672
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-5000K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 360.8 lumens
Efficiency: N/A
Efficacy: 59.1 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

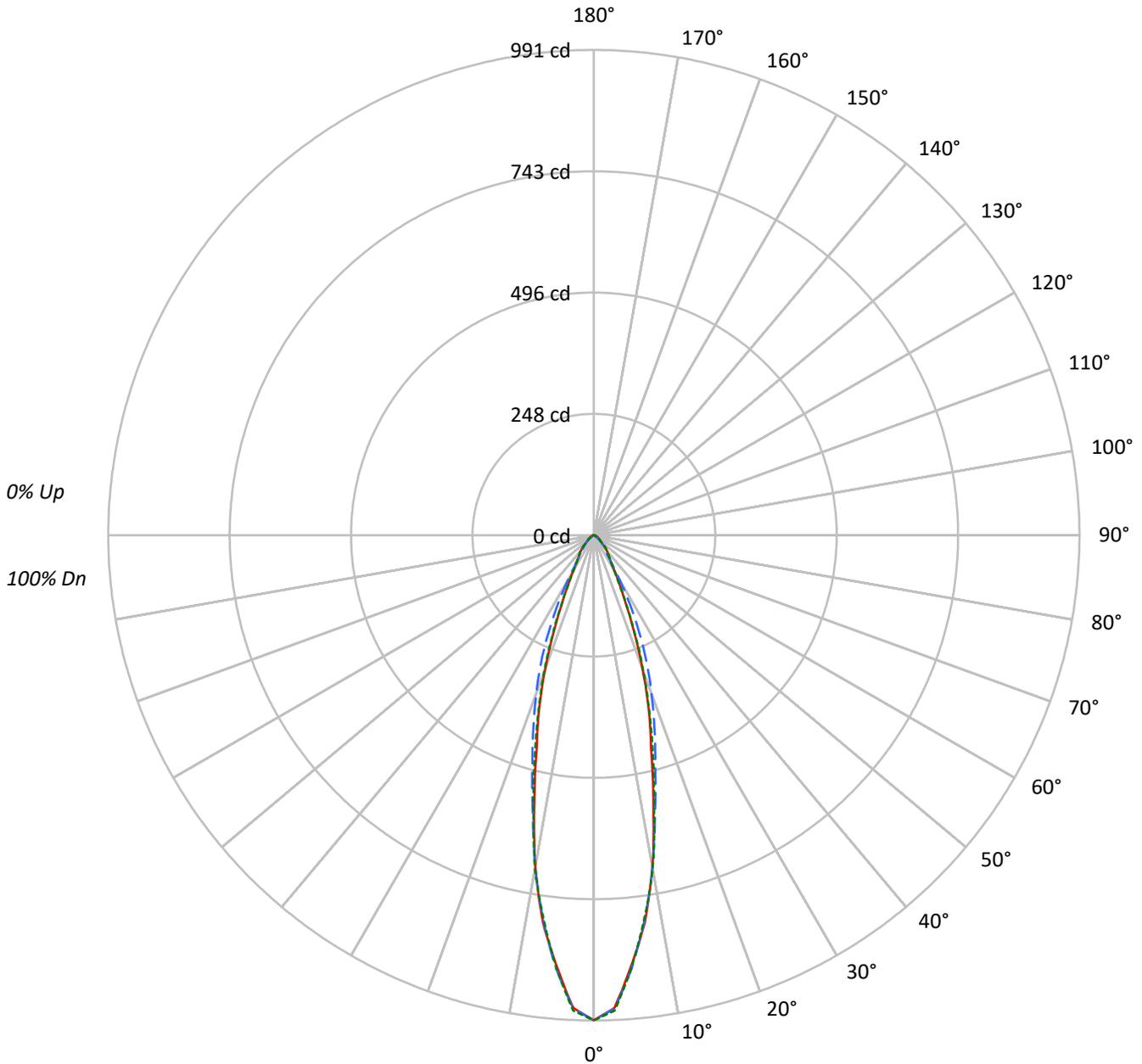
Input Watts (W): 6.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	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°	1535446	1535446	1535446
5°	1370003	1380894	1377315
10°	1083649	1083649	1089158
15°	723396	776030	745862
20°	477033	565941	486765
25°	262353	374546	268339
30°	148733	186498	144616
35°	101991	90827	104072
40°	82959	68796	85388
45°	56555	51294	56555
50°	39547	34001	39547
55°	31618	12701	31618
60°	25420	10850	25420
65°	17238	8436	17238
70°	10423	5438	10423
75°	7187	7187	7187
80°	10711	0	10711
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 56555 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.3	21.7
10°-20°	131.5	36.4
20°-30°	84.6	23.4
30°-40°	35.5	9.8
40°-50°	18.6	5.2
50°-60°	7.4	2.0
60°-70°	3.3	0.9
70°-80°	1.4	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°	294.4	81.6
0°-40°	329.9	91.4
0°-60°	355.9	98.6
0°-90°	360.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	360.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	991	991	991	991	991	
5°	880	882	888	883	885	78
15°	451	470	484	474	465	127
25°	153	170	219	174	157	74
35°	54	56	48	55	55	35
45°	26	23	23	25	26	20
55°	12	7	5	7	12	11
65°	5	4	2	4	5	5
75°	1	1	1	1	1	2
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°	990.6	990.6	990.6	990.6	990.6
2.5°	966.0	968.3	967.1	968.3	971.8
5°	880.5	881.7	887.5	882.8	885.2
7.5°	797.4	792.7	792.7	793.9	789.2
10°	688.5	683.8	688.5	686.1	692.0
12.5°	560.8	567.9	576.1	573.7	567.9
15°	450.8	469.5	483.6	474.2	464.8
17.5°	371.2	382.9	409.8	388.7	374.7
20°	289.2	306.8	343.1	312.6	295.1
22.5°	215.4	237.7	282.2	241.2	220.1
25°	153.4	169.8	219.0	174.5	156.9
27.5°	112.4	122.9	160.4	125.3	108.9
30°	83.1	93.7	104.2	91.3	80.8
32.5°	64.4	72.6	65.6	70.3	65.6
35°	53.9	56.2	48.0	55.0	55.0
37.5°	46.8	43.3	39.8	43.3	48.0
40°	41.0	35.1	34.0	36.3	42.2
42.5°	34.0	30.4	28.1	30.4	35.1
45°	25.8	23.4	23.4	24.6	25.8
47.5°	18.7	15.2	19.9	16.4	19.9
50°	16.4	10.5	14.1	10.5	16.4
52.5°	14.1	9.4	8.2	9.4	14.1
55°	11.7	7.0	4.7	7.0	11.7
57.5°	9.4	5.9	3.5	5.9	9.4
60°	8.2	4.7	3.5	4.7	8.2
62.5°	5.9	3.5	2.3	4.7	5.9
65°	4.7	3.5	2.3	3.5	4.7
67.5°	3.5	2.3	1.2	2.3	3.5
70°	2.3	2.3	1.2	2.3	2.3
72.5°	2.3	1.2	1.2	1.2	2.3
75°	1.2	1.2	1.2	1.2	1.2
77.5°	1.2	1.2	1.2	1.2	1.2
80°	1.2	1.2	0.0	1.2	1.2
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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