

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: P885788

Luminaire Tested: ML104LSFL95FS1E-TIR1D55WFL-TL1SDSL-340LM-2700K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-149)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D55WFL-TL1SDSL-340LM-2700K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 357.5 lumens
Efficiency: N/A
Efficacy: 58.6 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.83 / 0.8
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

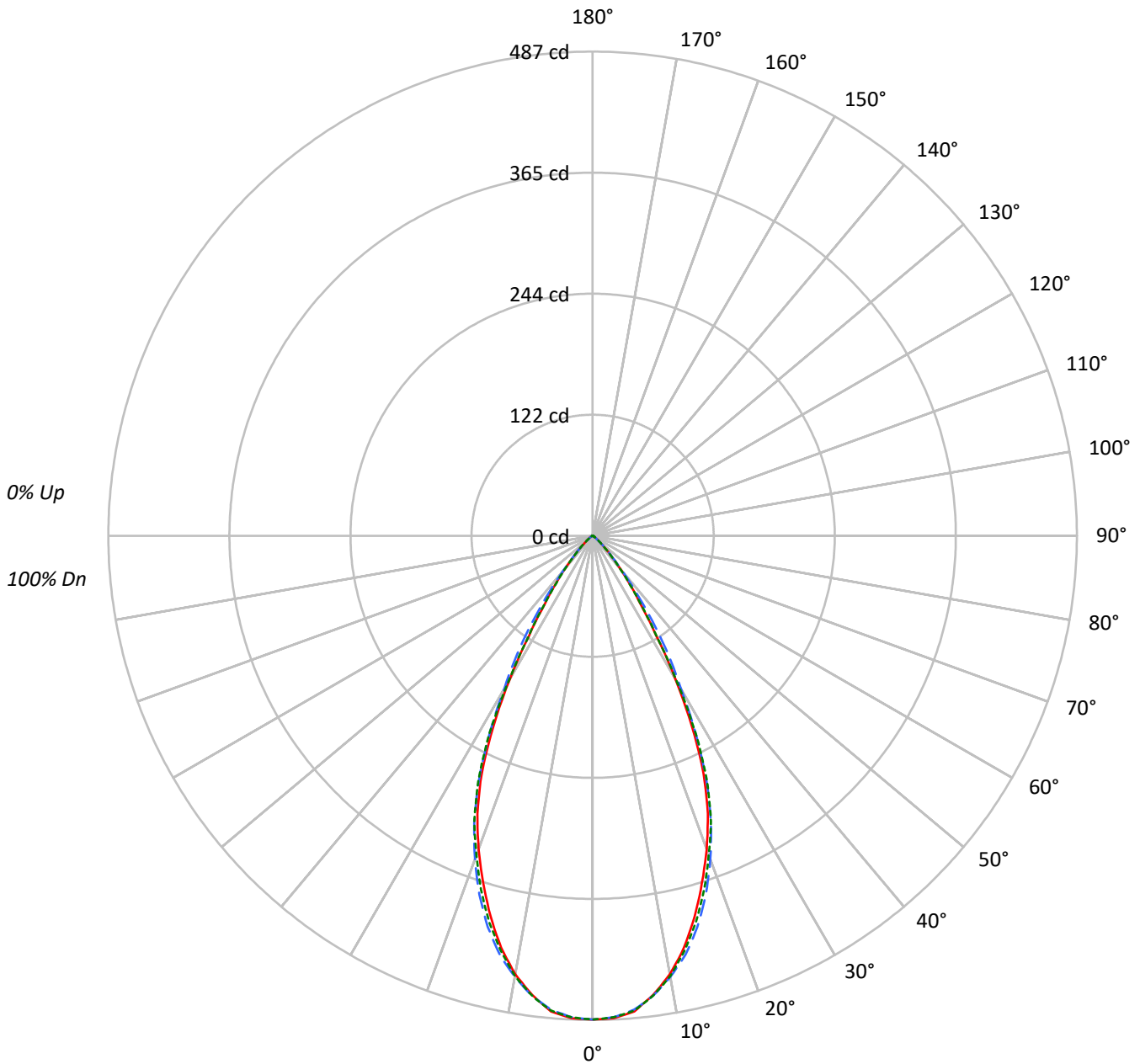
Input Watts (W): 6.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88
3	103	97	92	89	101	96	91	88	93	90	87	91	88	85	89	86	84	82
4	98	91	86	82	97	90	85	81	88	84	81	86	82	80	84	81	79	77
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	72
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	70	68
7	85	76	71	67	84	76	70	67	75	70	66	73	69	66	72	68	65	64
8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	61
9	78	69	63	59	77	68	63	59	67	62	59	66	62	59	66	61	58	57
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	62	58	55	54

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	754238	754238	754238
5°	747317	744516	745916
10°	704805	709054	707638
15°	636261	653592	644927
20°	552910	570724	563302
25°	451507	462282	465360
30°	298360	317690	303193
35°	158568	197737	161974
40°	85590	93077	83769
45°	41430	41430	39457
50°	19532	15192	19532
55°	9729	7296	9729
60°	5580	2790	5580
65°	3301	3301	3301
70°	4079	4079	4079
75°	5390	0	5390
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 41430 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.8	12.5
10°-20°	111.9	31.3
20°-30°	120.4	33.7
30°-40°	60.2	16.8
40°-50°	15.8	4.4
50°-60°	3.2	0.9
60°-70°	1.0	0.3
70°-80°	0.4	0.1
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°	277.1	77.5
0°-40°	337.3	94.3
0°-60°	356.2	99.6
0°-90°	357.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	357.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	487	487	487	487	487	
5°	480	478	478	479	479	45
15°	396	400	407	405	402	110
25°	264	268	270	273	272	117
35°	84	90	104	90	86	56
45°	19	18	19	18	18	16
55°	4	3	3	4	4	4
65°	1	1	1	1	1	1
75°	1	0	0	0	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°	486.6	486.6	486.6	486.6	486.6
2.5°	485.7	484.8	484.8	485.7	484.8
5°	480.3	477.6	478.5	479.4	479.4
7.5°	465.8	465.8	466.7	467.7	466.7
10°	447.8	448.7	450.5	451.4	449.6
12.5°	424.4	426.2	431.6	429.8	427.1
15°	396.5	400.1	407.3	404.6	401.9
17.5°	365.8	371.2	378.4	376.6	373.0
20°	335.2	338.8	346.0	346.0	341.5
22.5°	302.8	306.4	310.9	312.7	310.9
25°	264.0	267.6	270.3	273.0	272.1
27.5°	216.3	222.6	224.4	227.1	225.3
30°	166.7	172.1	177.5	176.6	169.4
32.5°	118.9	125.2	141.5	129.8	119.8
35°	83.8	90.1	104.5	90.1	85.6
37.5°	61.3	60.4	71.2	61.3	60.4
40°	42.3	43.3	46.0	42.3	41.4
42.5°	28.8	27.9	29.7	28.8	27.9
45°	18.9	18.0	18.9	18.0	18.0
47.5°	11.7	10.8	10.8	10.8	11.7
50°	8.1	7.2	6.3	7.2	8.1
52.5°	5.4	4.5	4.5	4.5	5.4
55°	3.6	2.7	2.7	3.6	3.6
57.5°	2.7	1.8	1.8	1.8	2.7
60°	1.8	1.8	0.9	1.8	1.8
62.5°	1.8	0.9	0.9	0.9	1.8
65°	0.9	0.9	0.9	0.9	0.9
67.5°	0.9	0.9	0.9	0.9	0.9
70°	0.9	0.9	0.9	0.9	0.9
72.5°	0.9	0.9	0.0	0.9	0.9
75°	0.9	0.0	0.0	0.0	0.9
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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