

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: P885780

Luminaire Tested: ML104LSFL95FS1E-TIR1D55WFL-TL1SDMW-340LM-3500K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885780
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-3500K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 398.5 lumens
Efficiency: N/A
Efficacy: 65.3 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')

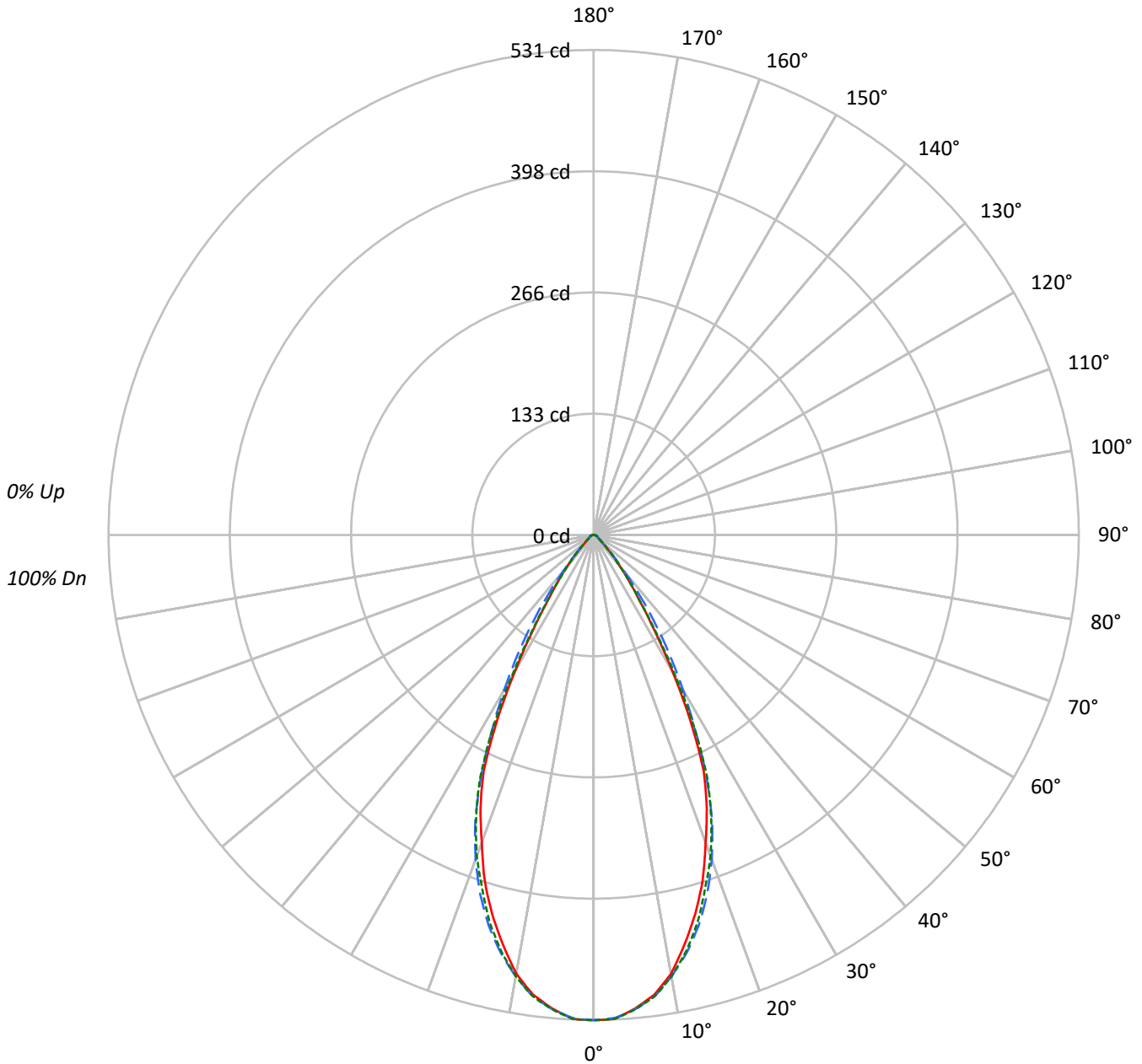
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	823679	823679	823679
5°	809865	811421	811421
10°	767919	772484	772484
15°	689216	711361	705103
20°	590848	623508	617075
25°	487422	499223	504354
30°	308204	349012	322344
35°	164812	217227	166705
40°	92065	104205	88018
45°	43403	49979	45595
50°	23873	26284	26284
55°	18646	18646	18646
60°	15190	15190	15190
65°	14671	17971	14671
70°	18128	18128	18128
75°	17966	17966	17966
80°	17852	17852	17852
85°	17784	17784	17784

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 49979 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.8	12.3
10°-20°	121.8	30.6
20°-30°	129.8	32.6
30°-40°	65.0	16.3
40°-50°	18.5	4.6
50°-60°	6.5	1.6
60°-70°	4.5	1.1
70°-80°	2.9	0.7
80°-90°	0.8	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°	300.4	75.4
0°-40°	365.4	91.7
0°-60°	390.3	97.9
0°-90°	398.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	398.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	531	531	531	531	531	
5°	520	522	522	522	522	49
15°	430	434	443	440	439	119
25°	285	288	292	295	295	125
35°	87	96	115	97	88	58
45°	20	21	23	22	21	17
55°	7	7	7	7	7	6
65°	4	5	5	5	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°	531.4	531.4	531.4	531.4	531.4
2.5°	530.4	529.4	529.4	530.4	530.4
5°	520.5	521.5	521.5	521.5	521.5
7.5°	507.7	508.7	509.7	510.6	509.7
10°	487.9	488.9	490.8	492.8	490.8
12.5°	459.2	464.1	469.1	468.1	467.1
15°	429.5	434.4	443.3	440.4	439.4
17.5°	396.8	402.8	412.7	411.7	405.7
20°	358.2	367.1	378.0	375.1	374.1
22.5°	323.6	330.5	338.4	339.4	336.5
25°	285.0	288.0	291.9	294.9	294.9
27.5°	228.6	237.5	240.5	243.4	239.5
30°	172.2	184.1	195.0	192.0	180.1
32.5°	122.7	137.6	153.4	142.5	127.7
35°	87.1	96.0	114.8	97.0	88.1
37.5°	63.3	66.3	79.2	67.3	63.3
40°	45.5	46.5	51.5	46.5	43.5
42.5°	30.7	32.7	34.6	32.7	30.7
45°	19.8	20.8	22.8	21.8	20.8
47.5°	12.9	13.9	14.8	14.8	14.8
50°	9.9	9.9	10.9	11.9	10.9
52.5°	7.9	7.9	8.9	8.9	7.9
55°	6.9	6.9	6.9	6.9	6.9
57.5°	5.9	5.9	5.9	5.9	5.9
60°	4.9	4.9	4.9	4.9	4.9
62.5°	4.9	4.9	4.9	4.9	4.9
65°	4.0	4.9	4.9	4.9	4.0
67.5°	4.0	4.0	4.0	4.0	4.0
70°	4.0	4.0	4.0	4.0	4.0
72.5°	3.0	3.0	3.0	3.0	3.0
75°	3.0	3.0	3.0	3.0	3.0
77.5°	2.0	2.0	2.0	2.0	2.0
80°	2.0	2.0	2.0	2.0	2.0
82.5°	1.0	1.0	1.0	1.0	1.0
85°	1.0	1.0	1.0	1.0	1.0
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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