

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: P885784

Luminaire Tested: ML104LSFL95FS1E-TIR1D55WFL-TL1SDMWB-340LM-3000K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885784
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-151)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D55WFL-TL1SDMWB-340LM-3000K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 376.5 lumens
Efficiency: N/A
Efficacy: 61.7 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.83 / 0.81
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

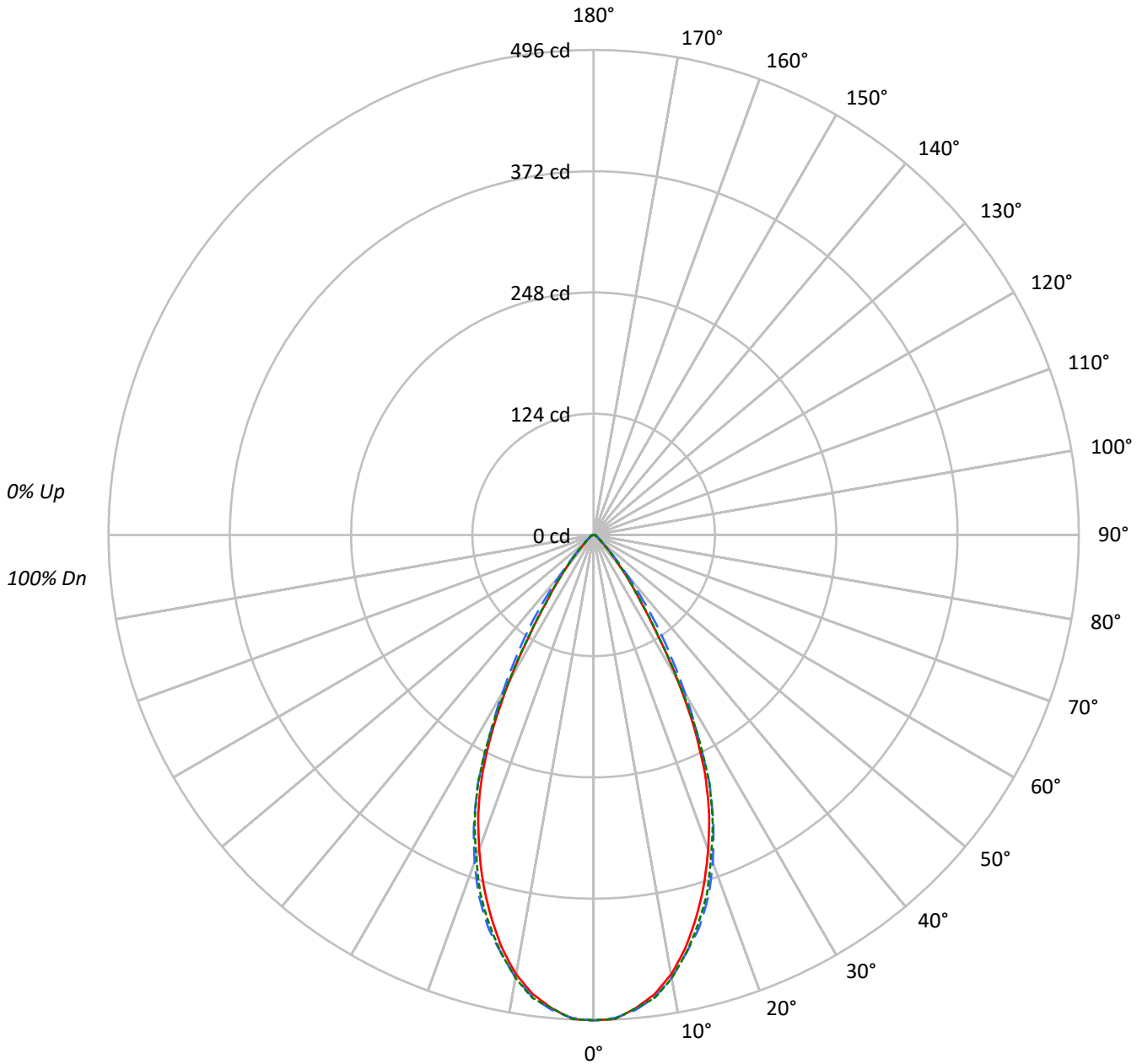
Input Watts (W): 6.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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								
1	113	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93								
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87								
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81								
4	98	90	85	81	96	89	84	80	87	83	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	69	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	70	65	61	69	64	61	68	63	60	59								
9	77	67	62	58	76	67	61	58	66	61	58	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°	769583	769583	769583
5°	756497	759297	756497
10°	718183	724007	724007
15°	649580	667714	661616
20°	564456	587549	578312
25°	460571	478187	478187
30°	307846	333083	311247
35°	161028	210604	162731
40°	85185	104003	87006
45°	42964	49102	42964
50°	20256	27008	22426
55°	15133	17565	15133
60°	14570	14570	14570
65°	13570	13570	13570
70°	12689	12689	12689
75°	11379	11379	11379
80°	8034	8034	8034
85°	16006	16006	16006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 49102 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.7	12.1
10°-20°	114.5	30.4
20°-30°	123.6	32.8
30°-40°	62.8	16.7
40°-50°	17.7	4.7
50°-60°	5.8	1.5
60°-70°	3.6	0.9
70°-80°	2.3	0.6
80°-90°	0.6	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°	283.7	75.4
0°-40°	346.6	92.1
0°-60°	370.0	98.3
0°-90°	376.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	376.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	496	496	496	496	496	
5°	486	488	488	488	486	45
15°	405	410	416	415	412	113
25°	269	273	280	280	280	120
35°	85	94	111	95	86	57
45°	20	21	22	21	20	16
55°	6	6	6	6	6	5
65°	4	4	4	4	4	3
75°	2	2	2	2	2	2
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°	496.5	496.5	496.5	496.5	496.5
2.5°	495.5	494.6	494.6	495.5	495.5
5°	486.2	488.0	488.0	488.0	486.2
7.5°	474.0	475.0	476.8	476.8	477.8
10°	456.3	458.1	460.0	460.0	460.0
12.5°	432.9	434.8	437.6	438.5	437.6
15°	404.8	409.5	416.1	415.1	412.3
17.5°	374.9	380.5	388.9	386.1	385.2
20°	342.2	348.7	356.2	353.4	350.6
22.5°	308.5	314.1	319.8	319.8	317.9
25°	269.3	273.0	279.6	279.6	279.6
27.5°	222.5	227.2	229.1	232.8	230.0
30°	172.0	178.6	186.1	184.2	173.9
32.5°	122.5	132.8	145.9	136.5	124.3
35°	85.1	93.5	111.3	95.4	86.0
37.5°	60.8	63.6	77.6	63.6	61.7
40°	42.1	43.9	51.4	43.9	43.0
42.5°	29.0	30.9	33.7	30.9	28.0
45°	19.6	20.6	22.4	20.6	19.6
47.5°	12.2	13.1	15.0	14.0	13.1
50°	8.4	9.3	11.2	10.3	9.3
52.5°	6.5	7.5	8.4	7.5	7.5
55°	5.6	5.6	6.5	6.5	5.6
57.5°	4.7	4.7	5.6	4.7	4.7
60°	4.7	4.7	4.7	4.7	4.7
62.5°	3.7	3.7	3.7	3.7	3.7
65°	3.7	3.7	3.7	3.7	3.7
67.5°	2.8	3.7	2.8	3.7	2.8
70°	2.8	2.8	2.8	2.8	2.8
72.5°	2.8	2.8	2.8	2.8	2.8
75°	1.9	1.9	1.9	1.9	1.9
77.5°	1.9	1.9	1.9	1.9	1.9
80°	0.9	0.9	0.9	1.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.9	0.9	0.9	0.9	0.9
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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