

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: P641638

Luminaire Tested: ML5612LSVWFL97FS1E - 593BB - 1200LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641638  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-98)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL97FS1E - 593BB - 1200LM - 3500K  
Description: ML56 RR, MILKY OPTIC, 5" BLACK BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

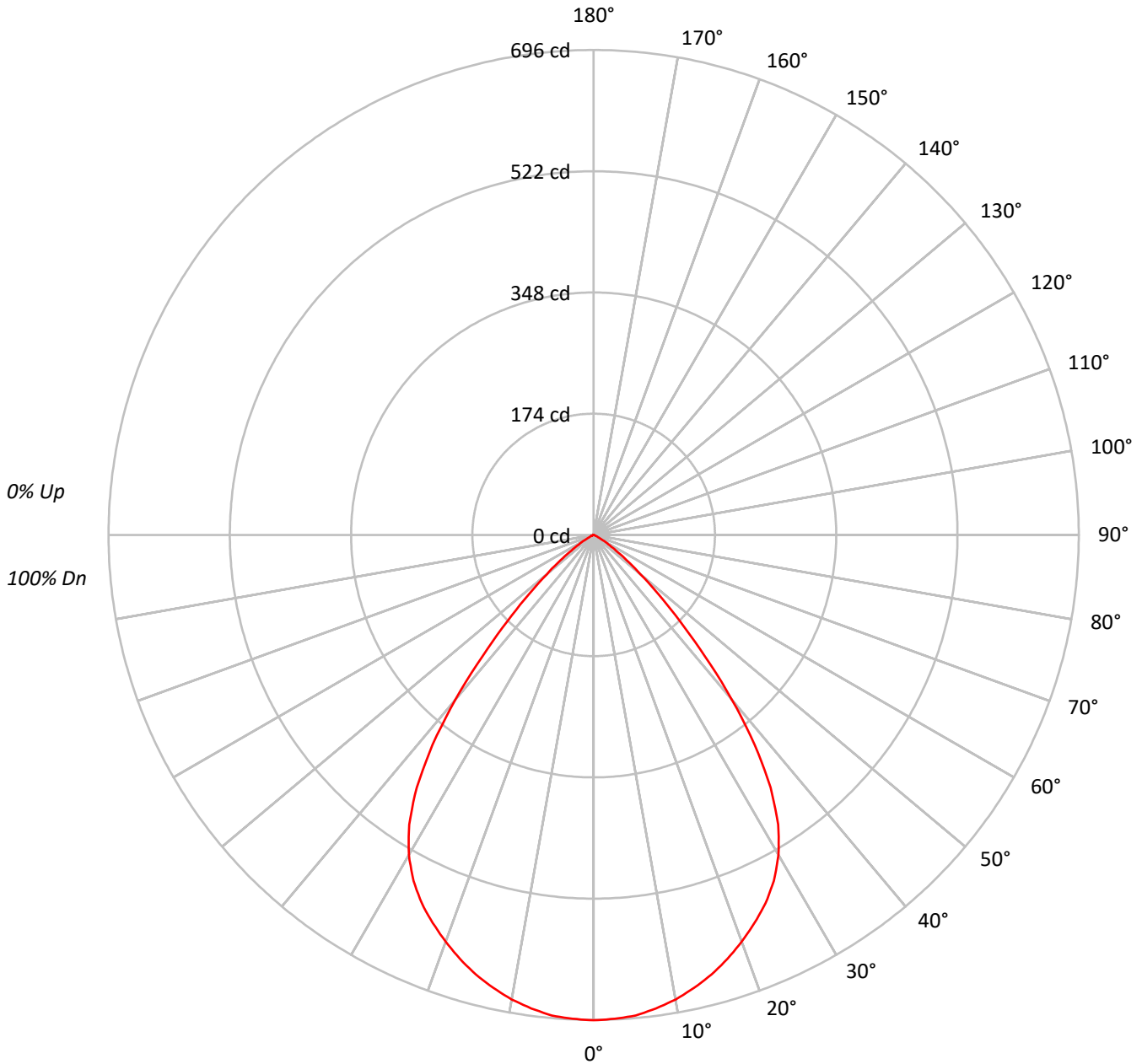
Lumens per Lamp: N/A  
Luminaire Lumens: 972.0 lumens  
Efficiency: N/A  
Efficacy: 58.9 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.11  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 16.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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



TEST NUMBER: P641638  
CATALOG NUMBER: ML5612LSVWFL97FS1E - 593BB - 1200LM - 3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P641638

CATALOG NUMBER: ML5612LSVWFL97FS1E - 593BB - 1200LM - 3500K

**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	100	100	100
1	113	110	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84	84	84	84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76	76	76	76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69	69	69	69
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63	63	63	63
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	59	58	58	58	58
7	78	67	60	56	76	67	60	56	65	59	55	64	59	55	63	58	55	53	53	53	53
8	73	63	56	51	72	62	55	51	61	55	51	60	54	51	59	54	50	49	49	49	49
9	69	58	52	47	68	58	51	47	57	51	47	56	50	47	55	50	46	45	45	45	45
10	65	54	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42	42	42	42

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	38182
5°	38097
10°	37686
15°	37077
20°	36234
25°	35294
30°	33575
35°	29613
40°	22077
45°	13529
50°	7497
55°	3737
60°	1688
65°	545
70°	224
75°	297
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13529 cd/sqm



TEST NUMBER: P641638

CATALOG NUMBER: ML5612LSVWFL97FS1E - 593BB - 1200LM - 3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.6	6.7
10°-20°	183.9	18.9
20°-30°	267.5	27.5
30°-40°	269.6	27.7
40°-50°	139.8	14.4
50°-60°	38.8	4.0
60°-70°	5.8	0.6
70°-80°	0.9	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°	516.9	53.2
0°-40°	786.6	80.9
0°-60°	965.2	99.3
0°-90°	972.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	972.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	696	
5°	692	66
15°	653	184
25°	584	267
35°	442	270
45°	174	140
55°	39	39
65°	4	6
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P641638

CATALOG NUMBER: ML5612LSVWFL97FS1E - 593BB - 1200LM - 3500K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	696.5
2.5°	695.1
5°	692.3
7.5°	685.4
10°	677.0
12.5°	665.8
15°	653.3
17.5°	637.9
20°	621.1
22.5°	603.0
25°	583.5
27.5°	559.7
30°	530.4
32.5°	492.7
35°	442.5
37.5°	379.7
40°	308.5
42.5°	235.9
45°	174.5
47.5°	125.6
50°	87.9
52.5°	60.0
55°	39.1
57.5°	25.1
60°	15.4
62.5°	8.4
65°	4.2
67.5°	2.8
70°	1.4
72.5°	1.4
75°	1.4
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)