

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: P641749

Luminaire Tested: ML5612LSVWFL97FS1E - 596WB - 600LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641749  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-104)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL97FS1E - 596WB - 600LM - 4000K  
Description: ML56 RR, MILKY OPTIC, 5" SHALLOW WHITE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

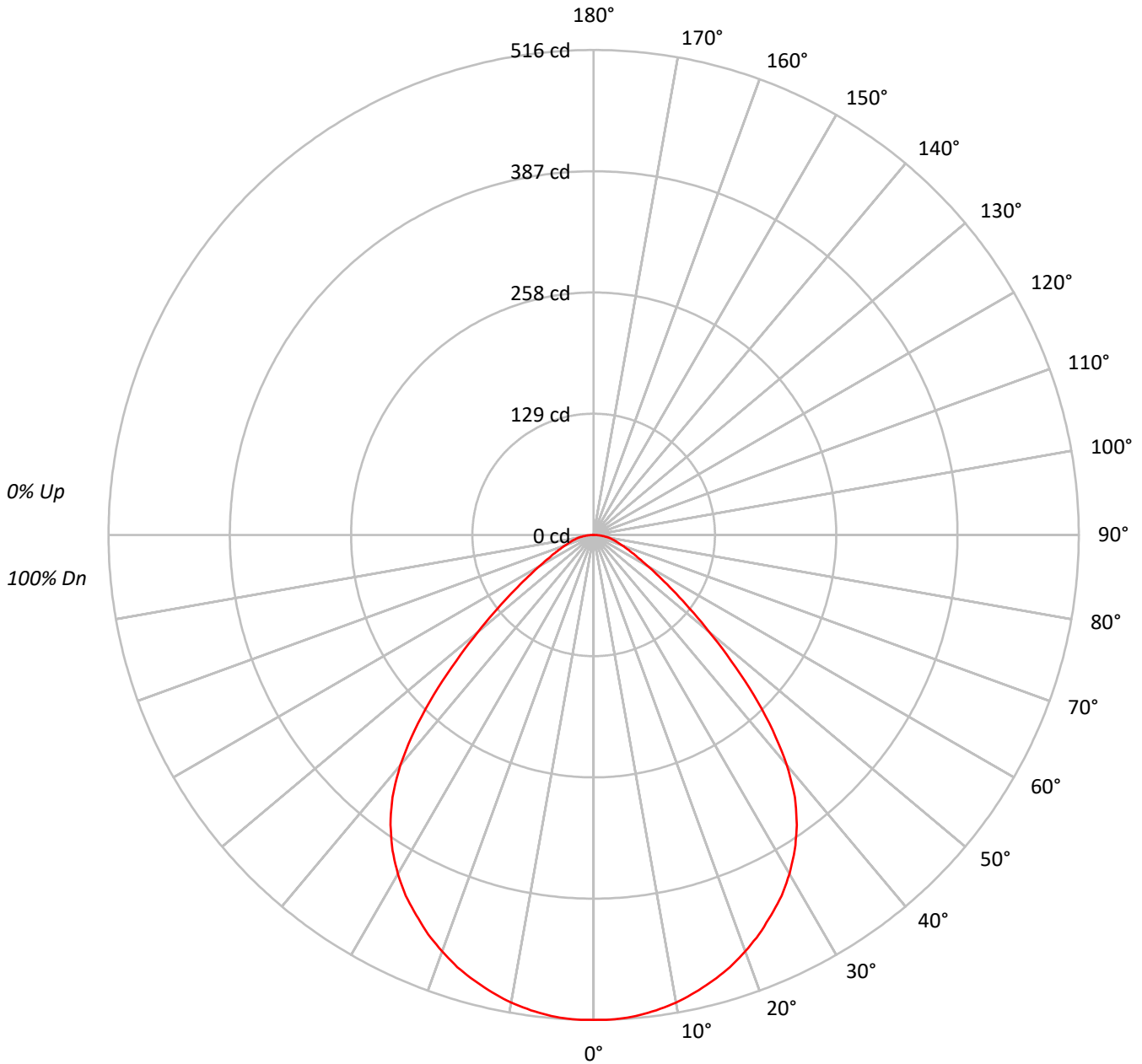
Lumens per Lamp: N/A  
Luminaire Lumens: 984.2 lumens  
Efficiency: N/A  
Efficacy: 95.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.24  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 10.3  
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: P641749  
CATALOG NUMBER: ML5612LSVWFL97FS1E - 596WB - 600LM - 4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P641749

CATALOG NUMBER: ML5612LSVWFL97FS1E - 596WB - 600LM - 4000K

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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
1	111	107	104	101	109	105	102	99	101	98	96	97	95	93	94	92	91	89				89
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78				78
3	96	87	80	75	93	85	79	74	83	77	73	80	76	72	78	74	71	69				69
4	89	79	71	66	87	77	71	65	75	69	64	73	68	64	71	66	63	61				61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54				54
6	77	65	58	52	75	64	57	52	63	56	51	61	55	51	60	55	51	49				49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44				44
8	67	55	48	42	66	55	47	42	53	47	42	52	46	42	51	46	42	40				40
9	63	51	44	39	62	50	43	39	49	43	38	48	42	38	47	42	38	36				36
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33				33

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

	0°
0°	40734
5°	40731
10°	40512
15°	40119
20°	39609
25°	38882
30°	37965
35°	36312
40°	32955
45°	26860
50°	19699
55°	14093
60°	10531
65°	8480
70°	7363
75°	7076
80°	7046
85°	6159

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 26860 cd/sqm



TEST NUMBER: P641749

CATALOG NUMBER: ML5612LSVWFL97FS1E - 596WB - 600LM - 4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.8	5.0
10°-20°	138.4	14.1
20°-30°	205.6	20.9
30°-40°	233.6	23.7
40°-50°	184.3	18.7
50°-60°	94.9	9.6
60°-70°	46.1	4.7
70°-80°	24.6	2.5
80°-90°	7.9	0.8
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°	392.8	39.9
0°-40°	626.4	63.6
0°-60°	905.6	92.0
0°-90°	984.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	984.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	516	
5°	514	49
15°	491	138
25°	446	206
35°	377	234
45°	241	184
55°	102	95
65°	45	46
75°	23	25
85°	7	8
90°	0	



TEST NUMBER: P641749

CATALOG NUMBER: ML5612LSVWFL97FS1E - 596WB - 600LM - 4000K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	516.0
2.5°	516.0
5°	514.0
7.5°	510.2
10°	505.4
12.5°	498.6
15°	490.9
17.5°	482.2
20°	471.5
22.5°	459.9
25°	446.4
27.5°	432.9
30°	416.5
32.5°	398.1
35°	376.8
37.5°	351.7
40°	319.8
42.5°	282.1
45°	240.6
47.5°	198.1
50°	160.4
52.5°	128.5
55°	102.4
57.5°	82.1
60°	66.7
62.5°	54.1
65°	45.4
67.5°	37.7
70°	31.9
72.5°	27.1
75°	23.2
77.5°	19.3
80°	15.5
82.5°	11.6
85°	6.8
87.5°	2.9
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)