

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: P641719

Luminaire Tested: ML5612LSVWFL97FS1E - 594TBZB - 600LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641719  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-103)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL97FS1E - 594TBZB - 600LM - 4000K  
Description: ML56 RR, MILKY OPTIC, 5" TUSCON BRONZE GIMBAL TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

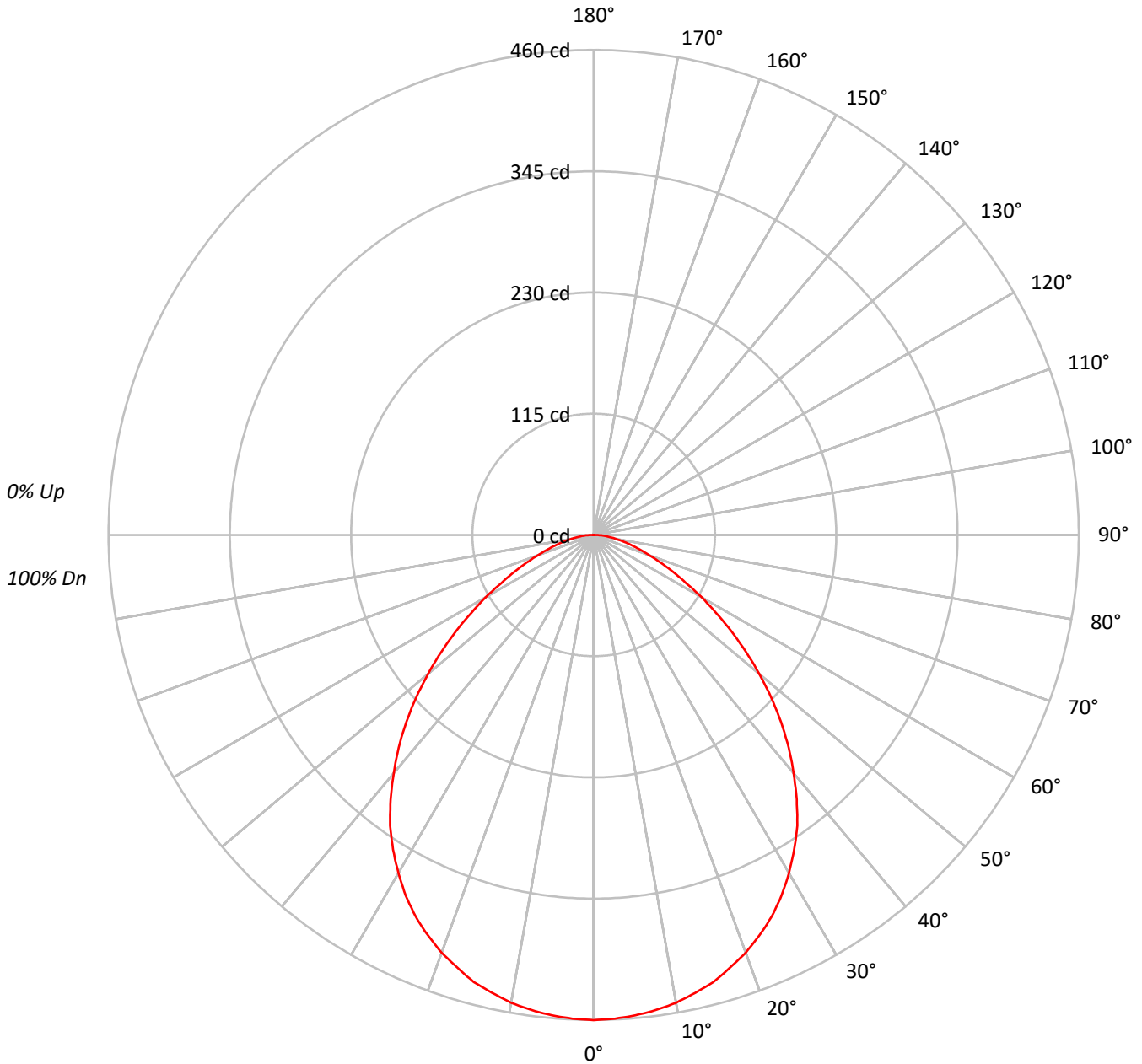
Lumens per Lamp: N/A  
Luminaire Lumens: 1030.5 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.27  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

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: P641719  
CATALOG NUMBER: ML5612LSVWFL97FS1E - 594TBZB - 600LM - 4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P641719

CATALOG NUMBER: ML5612LSVWFL97FS1E - 594TBZB - 600LM - 4000K

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

RF	20									20									20									20									
RC	80									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	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87																			
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	82	79	76	74																			
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64																			
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56																			
5	79	68	59	53	77	67	59	53	64	58	52	63	57	52	61	55	51	49																			
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44																			
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39																			
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35																			
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32																			
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29																			

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

	0°
0°	36337
5°	36246
10°	36120
15°	35878
20°	35417
25°	34788
30°	33754
35°	32428
40°	30389
45°	28066
50°	25176
55°	21952
60°	18630
65°	15541
70°	12948
75°	11194
80°	9683
85°	9601

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 28066 cd/sqm



TEST NUMBER: P641719

CATALOG NUMBER: ML5612LSVWFL97FS1E - 594TBZB - 600LM - 4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.4	4.2
10°-20°	123.6	12.0
20°-30°	183.5	17.8
30°-40°	209.4	20.3
40°-50°	193.3	18.8
50°-60°	142.8	13.9
60°-70°	83.4	8.1
70°-80°	39.2	3.8
80°-90°	11.9	1.2
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°	350.6	34.0
0°-40°	560.0	54.3
0°-60°	896.1	87.0
0°-90°	1030.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1030.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	460	
5°	457	43
15°	439	124
25°	399	184
35°	336	209
45°	251	193
55°	160	143
65°	83	83
75°	37	39
85°	11	12
90°	0	



TEST NUMBER: P641719

CATALOG NUMBER: ML5612LSVWFL97FS1E - 594TBZB - 600LM - 4000K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	460.3
2.5°	459.3
5°	457.4
7.5°	454.5
10°	450.6
12.5°	444.8
15°	439.0
17.5°	430.3
20°	421.6
22.5°	411.0
25°	399.4
27.5°	385.8
30°	370.3
32.5°	353.9
35°	336.5
37.5°	316.2
40°	294.9
42.5°	273.6
45°	251.4
47.5°	228.2
50°	205.0
52.5°	181.8
55°	159.5
57.5°	137.3
60°	118.0
62.5°	98.6
65°	83.2
67.5°	68.7
70°	56.1
72.5°	45.4
75°	36.7
77.5°	28.0
80°	21.3
82.5°	15.5
85°	10.6
87.5°	6.8
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)