

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: P641729

Luminaire Tested: ML5612LSVWFL97FS1E - 594WB - 1200LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641729  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-101)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL97FS1E - 594WB - 1200LM - 4000K  
Description: ML56 RR, MILKY OPTIC, 5" WHITE GIMBAL TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1647.1 lumens  
Efficiency: N/A  
Efficacy: 99.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.28  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

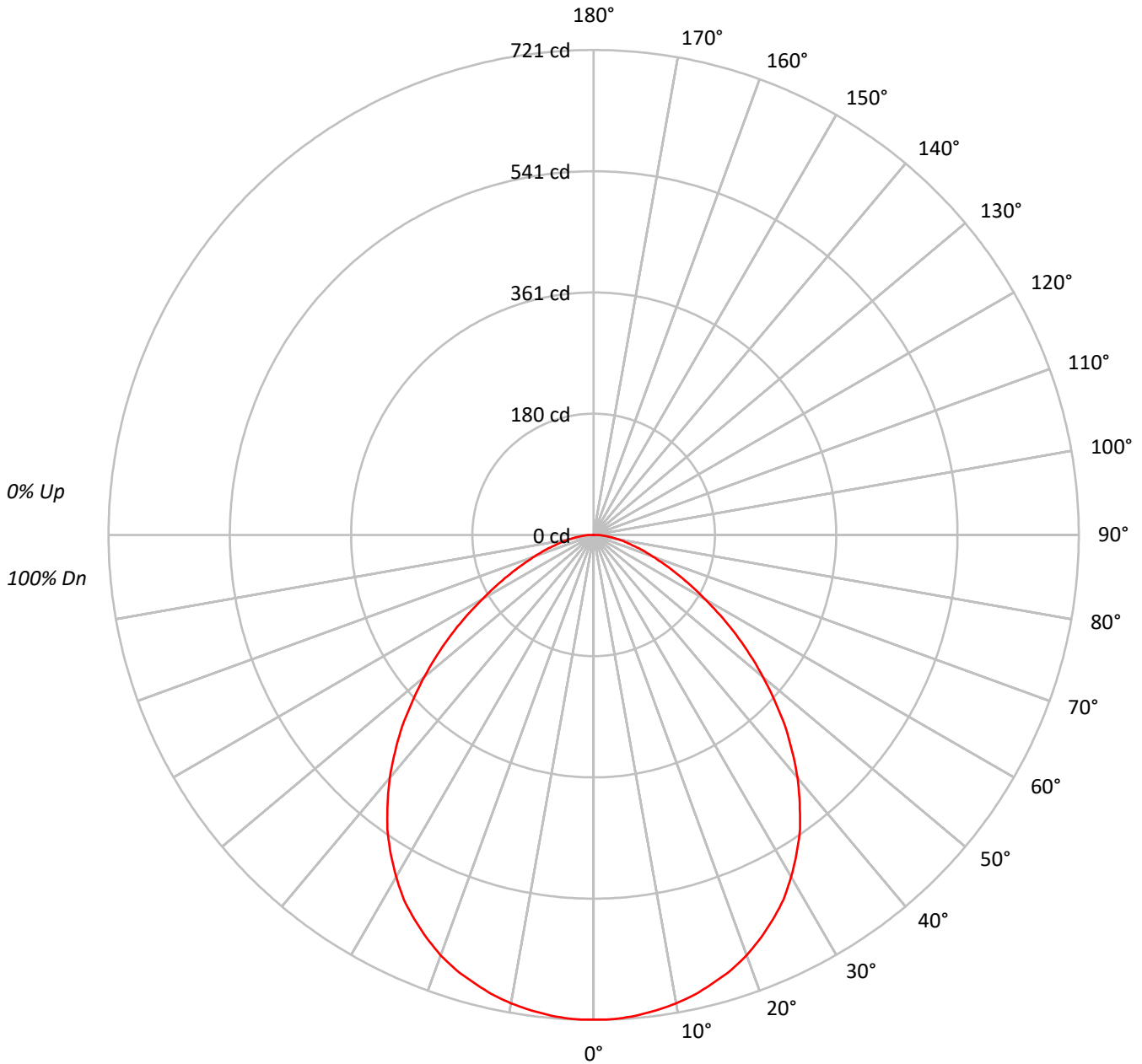
Input Watts (W): 16.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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									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	99	97	94	96	93	91	92	90	88	86																			
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74																			
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64																			
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56																			
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	60	55	51	49																			
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43																			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39																			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35																			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	31																			
10	56	43	36	31	55	43	36	31	42	35	31	41	35	31	40	34	30	29																			

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

	0°
0°	56885
5°	56864
10°	56680
15°	56317
20°	55873
25°	54926
30°	53507
35°	51509
40°	48578
45°	44924
50°	40380
55°	35536
60°	30108
65°	25516
70°	21488
75°	18331
80°	16366
85°	14945

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 44924 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.2	4.1
10°-20°	194.5	11.8
20°-30°	290.1	17.6
30°-40°	332.8	20.2
40°-50°	309.1	18.8
50°-60°	230.8	14.0
60°-70°	136.7	8.3
70°-80°	65.7	4.0
80°-90°	19.2	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°	552.8	33.6
0°-40°	885.6	53.8
0°-60°	1425.5	86.5
0°-90°	1647.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1647.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	721	
5°	718	68
15°	689	195
25°	631	290
35°	534	333
45°	402	309
55°	258	231
65°	137	137
75°	60	66
85°	16	19
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	720.6
2.5°	720.6
5°	717.6
7.5°	713.1
10°	707.1
12.5°	699.6
15°	689.1
17.5°	678.6
20°	665.1
22.5°	648.6
25°	630.6
27.5°	611.1
30°	587.0
32.5°	561.5
35°	534.5
37.5°	503.0
40°	471.4
42.5°	436.9
45°	402.4
47.5°	364.8
50°	328.8
52.5°	292.8
55°	258.2
57.5°	223.7
60°	190.7
62.5°	162.1
65°	136.6
67.5°	112.6
70°	93.1
72.5°	76.6
75°	60.1
77.5°	48.0
80°	36.0
82.5°	25.5
85°	16.5
87.5°	10.5
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

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— 0°-180°

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(END OF REPORT)