

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: P641738

Luminaire Tested: ML5612LSVWFL97FS1E - 594WB - 900LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641738  
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 - 900LM - 3500K  
Description: ML56 RR, MILKY OPTIC, 5" WHITE GIMBAL TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

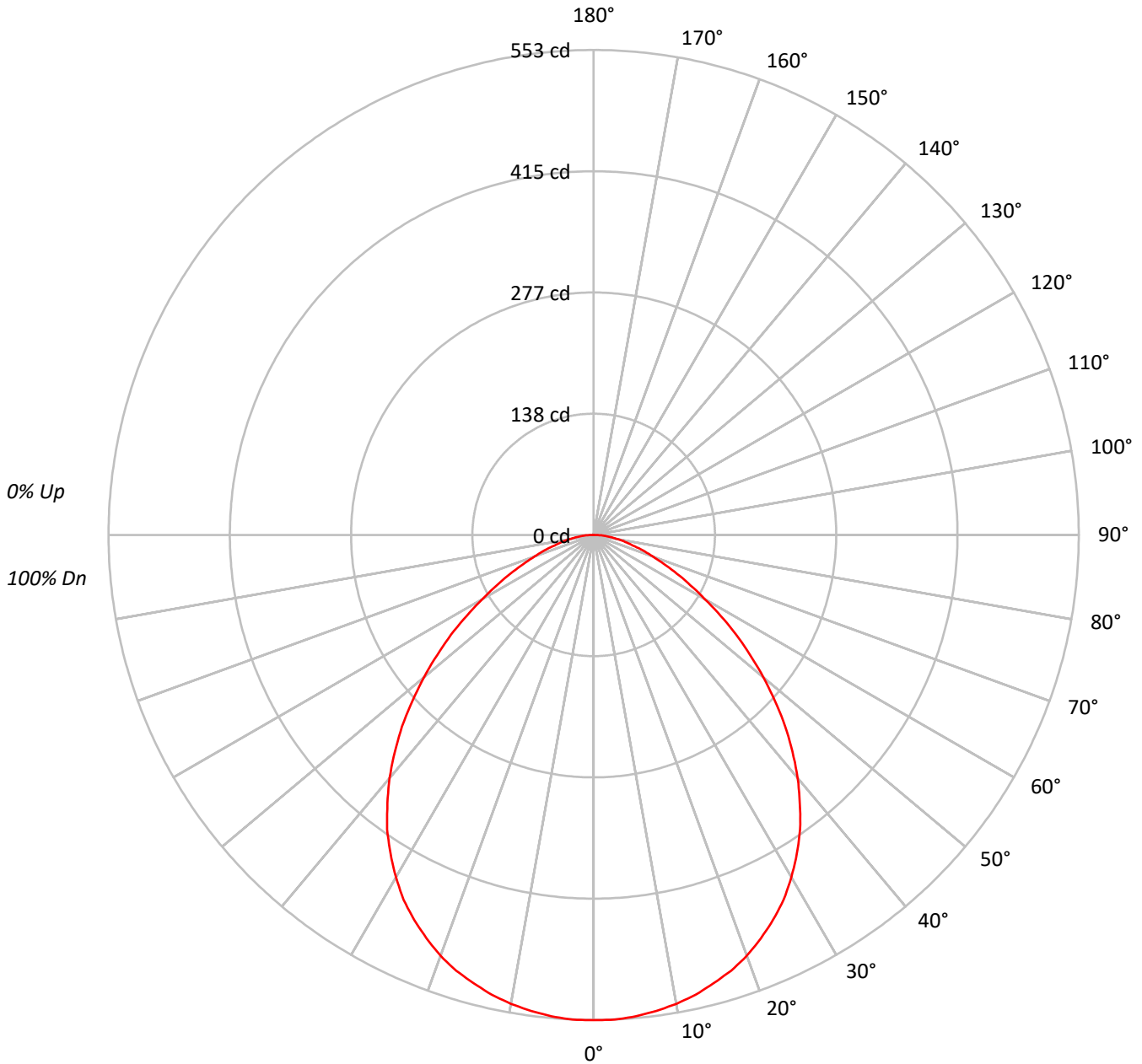
Lumens per Lamp: N/A  
Luminaire Lumens: 1264.6 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.28  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 13.3  
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				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			
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°	43678
5°	43663
10°	43518
15°	43241
20°	42894
25°	42166
30°	41083
35°	39540
40°	37294
45°	34485
50°	30997
55°	27292
60°	23114
65°	19594
70°	16503
75°	14061
80°	12592
85°	11503

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 34485 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.3	4.1
10°-20°	149.3	11.8
20°-30°	222.7	17.6
30°-40°	255.5	20.2
40°-50°	237.3	18.8
50°-60°	177.2	14.0
60°-70°	104.9	8.3
70°-80°	50.5	4.0
80°-90°	14.8	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°	424.4	33.6
0°-40°	679.9	53.8
0°-60°	1094.4	86.5
0°-90°	1264.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1264.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	553	
5°	551	52
15°	529	149
25°	484	223
35°	410	255
45°	309	237
55°	198	177
65°	105	105
75°	46	50
85°	13	15
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	553.3
2.5°	553.3
5°	551.0
7.5°	547.5
10°	542.9
12.5°	537.1
15°	529.1
17.5°	521.0
20°	510.6
22.5°	497.9
25°	484.1
27.5°	469.1
30°	450.7
32.5°	431.1
35°	410.3
37.5°	386.1
40°	361.9
42.5°	335.4
45°	308.9
47.5°	280.1
50°	252.4
52.5°	224.8
55°	198.3
57.5°	171.7
60°	146.4
62.5°	124.5
65°	104.9
67.5°	86.4
70°	71.5
72.5°	58.8
75°	46.1
77.5°	36.9
80°	27.7
82.5°	19.6
85°	12.7
87.5°	8.1
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)