

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: P641721

Luminaire Tested: ML5612LSVWFL97FS1E - 594TBZB - 900LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641721  
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 - 900LM - 2700K  
Description: ML56 RR, MILKY OPTIC, 5" TUSCON BRONZE GIMBAL TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

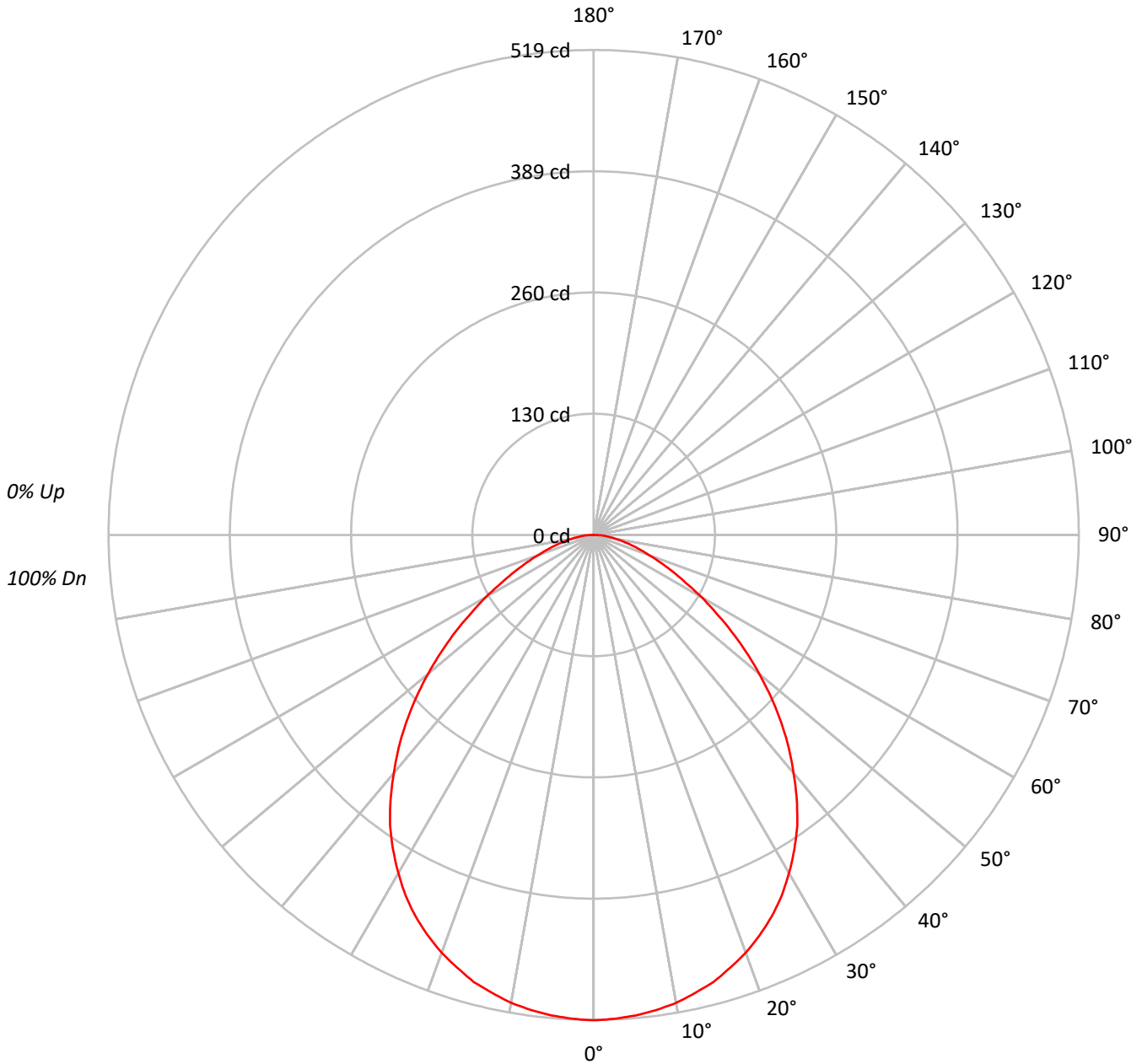
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1163.0 lumens  
Efficiency: N/A  
Efficacy: 87.4 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): 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			100	
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87			87	
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	82	79	76	74			74	
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64			64	
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56			56	
5	79	68	59	53	77	67	59	53	64	58	52	63	57	52	61	55	51	49			49	
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44			44	
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39			39	
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35			35	
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32			32	
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29			29	

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

	0°
0°	41002
5°	40905
10°	40761
15°	40487
20°	39971
25°	39257
30°	38102
35°	36601
40°	34295
45°	31672
50°	28406
55°	24787
60°	21014
65°	17521
70°	14610
75°	12658
80°	10910
85°	10869

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 31672 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.0	4.2
10°-20°	139.5	12.0
20°-30°	207.1	17.8
30°-40°	236.3	20.3
40°-50°	218.1	18.8
50°-60°	161.2	13.9
60°-70°	94.1	8.1
70°-80°	44.3	3.8
80°-90°	13.4	1.1
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°	395.7	34.0
0°-40°	632.0	54.3
0°-60°	1011.3	87.0
0°-90°	1163.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1163.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	519	
5°	516	49
15°	495	140
25°	451	207
35°	380	236
45°	284	218
55°	180	161
65°	94	94
75°	42	44
85°	12	13
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	519.4
2.5°	518.3
5°	516.2
7.5°	512.9
10°	508.5
12.5°	502.0
15°	495.4
17.5°	485.6
20°	475.8
22.5°	463.8
25°	450.7
27.5°	435.4
30°	418.0
32.5°	399.4
35°	379.8
37.5°	356.8
40°	332.8
42.5°	308.8
45°	283.7
47.5°	257.5
50°	231.3
52.5°	205.2
55°	180.1
57.5°	155.0
60°	133.1
62.5°	111.3
65°	93.8
67.5°	77.5
70°	63.3
72.5°	51.3
75°	41.5
77.5°	31.6
80°	24.0
82.5°	17.5
85°	12.0
87.5°	7.6
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)