

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: P641723

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

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641723  
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 - 3500K  
Description: ML56 RR, MILKY OPTIC, 5" TUSCON BRONZE GIMBAL TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1228.8 lumens  
Efficiency: N/A  
Efficacy: 92.4 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

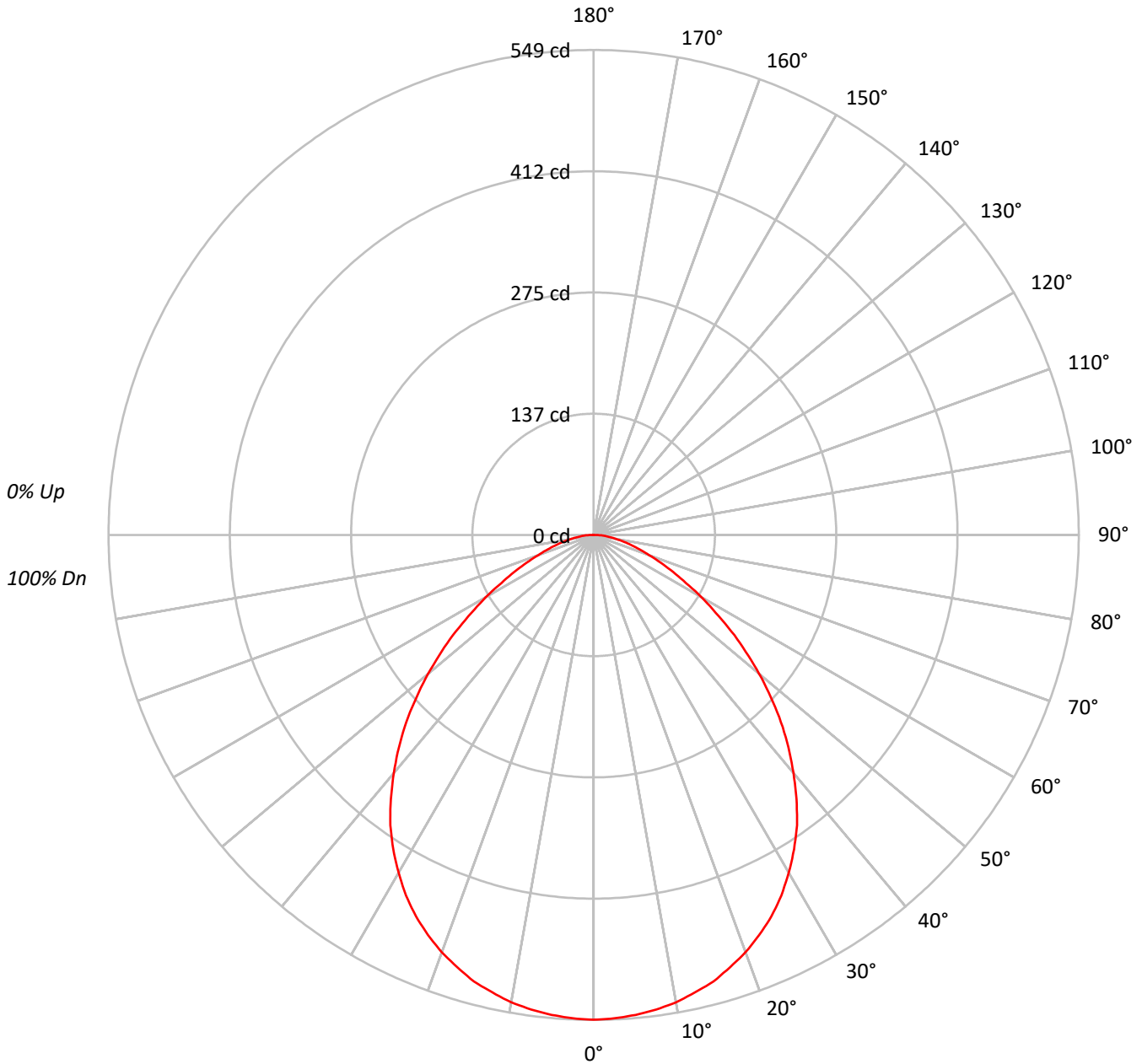
Input Watts (W): 13.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	43323
5°	43219
10°	43069
15°	42783
20°	42230
25°	41478
30°	40253
35°	38663
40°	36243
45°	33469
50°	30015
55°	26177
60°	22214
65°	18530
70°	15441
75°	13359
80°	11547
85°	11503

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 33469 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.8	4.2
10°-20°	147.4	12.0
20°-30°	218.8	17.8
30°-40°	249.7	20.3
40°-50°	230.5	18.8
50°-60°	170.3	13.9
60°-70°	99.4	8.1
70°-80°	46.8	3.8
80°-90°	14.1	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°	418.1	34.0
0°-40°	667.7	54.3
0°-60°	1068.5	87.0
0°-90°	1228.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1228.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	549	
5°	545	52
15°	524	147
25°	476	219
35°	401	250
45°	300	230
55°	190	170
65°	99	99
75°	44	47
85°	13	14
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	548.8
2.5°	547.7
5°	545.4
7.5°	541.9
10°	537.3
12.5°	530.4
15°	523.5
17.5°	513.1
20°	502.7
22.5°	490.0
25°	476.2
27.5°	460.0
30°	441.6
32.5°	422.0
35°	401.2
37.5°	377.0
40°	351.7
42.5°	326.3
45°	299.8
47.5°	272.1
50°	244.4
52.5°	216.8
55°	190.2
57.5°	163.7
60°	140.7
62.5°	117.6
65°	99.2
67.5°	81.9
70°	66.9
72.5°	54.2
75°	43.8
77.5°	33.4
80°	25.4
82.5°	18.4
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)