

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P641722

Luminaire Tested: ML5612LSVWFL97FS1E - 594TBZB - 900LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641722  
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 - 3000K  
Description: ML56 RR, MILKY OPTIC, 5" TUSCON BRONZE GIMBAL TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1196.3 lumens  
Efficiency: N/A  
Efficacy: 89.9 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

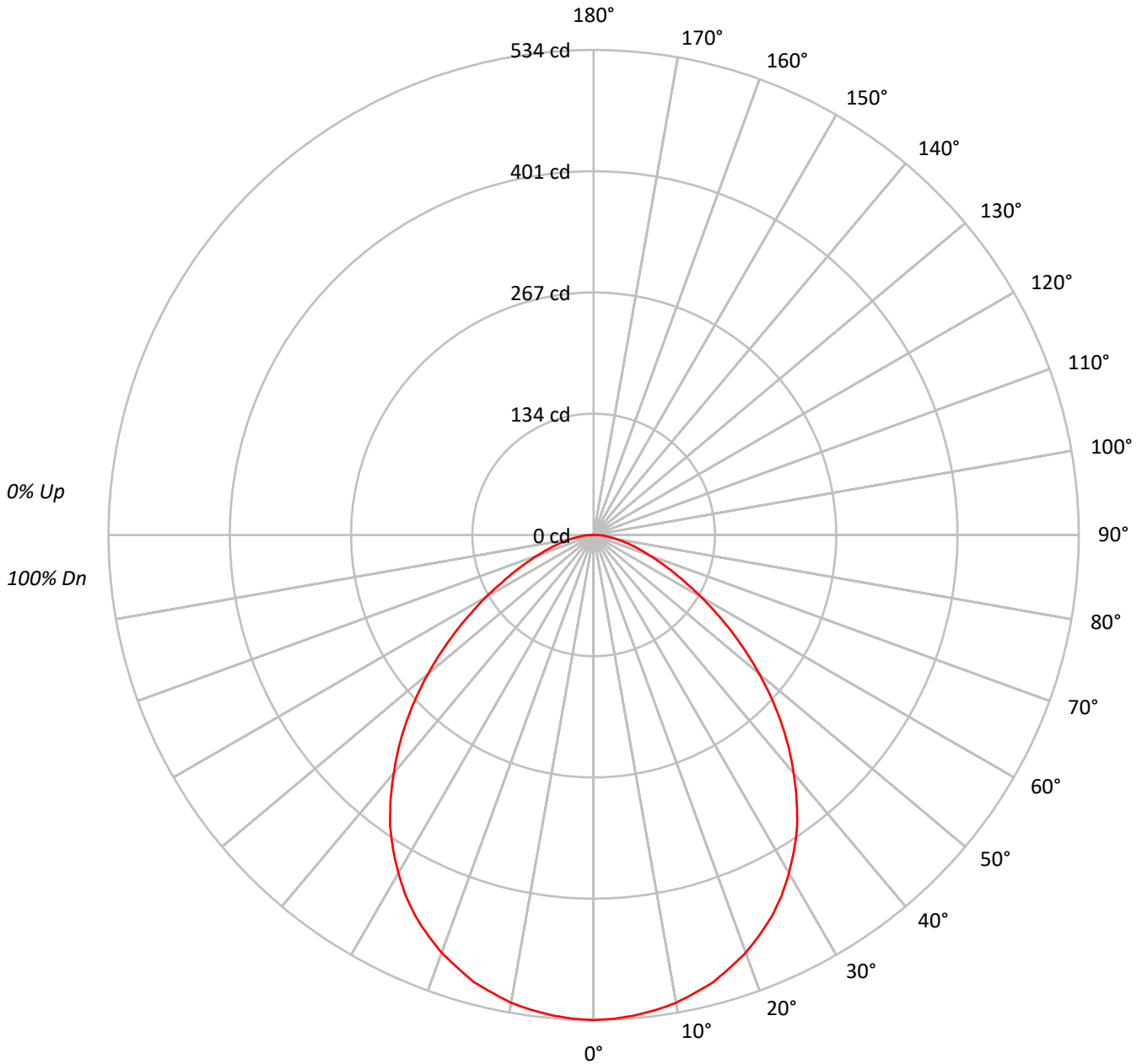
Input Watts (W): 13.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	42178
5°	42070
10°	41931
15°	41647
20°	41113
25°	40380
30°	39187
35°	37642
40°	35274
45°	32576
50°	29229
55°	25489
60°	21614
65°	18025
70°	15026
75°	13024
80°	11229
85°	11141

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 32576 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.4	4.2
10°-20°	143.5	12.0
20°-30°	213.1	17.8
30°-40°	243.1	20.3
40°-50°	224.4	18.8
50°-60°	165.8	13.9
60°-70°	96.8	8.1
70°-80°	45.6	3.8
80°-90°	13.8	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°	407.0	34.0
0°-40°	650.0	54.3
0°-60°	1040.2	87.0
0°-90°	1196.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1196.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	534	
5°	531	50
15°	510	143
25°	464	213
35°	391	243
45°	292	224
55°	185	166
65°	96	97
75°	43	46
85°	12	14
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	534.3
2.5°	533.2
5°	530.9
7.5°	527.5
10°	523.1
12.5°	516.3
15°	509.6
17.5°	499.5
20°	489.4
22.5°	477.0
25°	463.6
27.5°	447.9
30°	429.9
32.5°	410.8
35°	390.6
37.5°	367.0
40°	342.3
42.5°	317.7
45°	291.8
47.5°	264.9
50°	238.0
52.5°	211.0
55°	185.2
57.5°	159.4
60°	136.9
62.5°	114.5
65°	96.5
67.5°	79.7
70°	65.1
72.5°	52.8
75°	42.7
77.5°	32.6
80°	24.7
82.5°	18.0
85°	12.3
87.5°	7.9
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)