

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: P641667

Luminaire Tested: ML5612LSVWFL97FS1E - 593TBZB - 1200LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641667  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-100)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL97FS1E - 593TBZB - 1200LM - 3000K  
Description: ML56 RR, MILKY OPTIC, 5" TUSCON BRONZE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

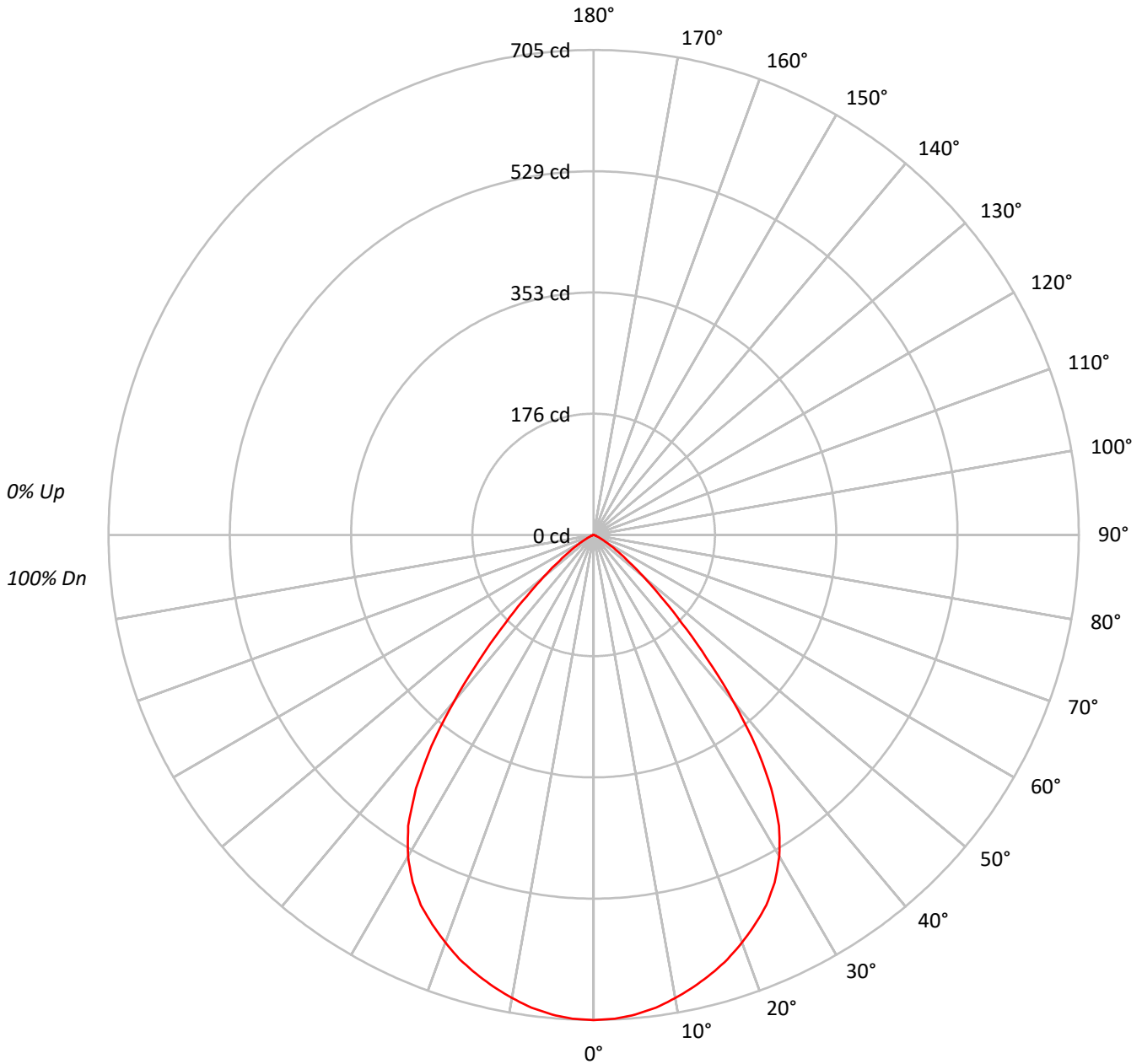
Lumens per Lamp: N/A  
Luminaire Lumens: 997.1 lumens  
Efficiency: N/A  
Efficacy: 60.4 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.12  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 16.5  
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									
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			100																
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92			92																
2	106	101	96	92	104	99	95	91	96	92	89	92	90	87	90	87	85	84			84																
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			76																
4	94	85	79	74	92	84	78	73	81	76	72	79	75	71	77	74	71	69			69																
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	64	63			63																
6	83	72	65	61	81	71	65	60	70	64	60	68	63	59	67	62	59	57			57																
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53			53																
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	53	50	48			48																
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45			45																
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41			41																

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

	0°
0°	55685
5°	55462
10°	54796
15°	53980
20°	52975
25°	51730
30°	49186
35°	43356
40°	32492
45°	20184
50°	11520
55°	6166
60°	3000
65°	1270
70°	623
75°	427
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20184 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.3	6.6
10°-20°	186.1	18.7
20°-30°	272.0	27.3
30°-40°	274.6	27.5
40°-50°	144.9	14.5
50°-60°	43.4	4.4
60°-70°	8.3	0.8
70°-80°	1.5	0.1
80°-90°	0.0	0.0
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°	524.5	52.6
0°-40°	799.1	80.1
0°-60°	987.4	99.0
0°-90°	997.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	997.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	705	
5°	700	66
15°	660	186
25°	594	272
35°	450	275
45°	181	145
55°	45	43
65°	7	8
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	705.4
2.5°	704.0
5°	699.9
7.5°	693.1
10°	683.6
12.5°	672.7
15°	660.5
17.5°	646.9
20°	630.6
22.5°	612.9
25°	593.9
27.5°	569.5
30°	539.6
32.5°	501.5
35°	449.9
37.5°	387.3
40°	315.3
42.5°	243.3
45°	180.8
47.5°	131.8
50°	93.8
52.5°	65.2
55°	44.8
57.5°	29.9
60°	19.0
62.5°	12.2
65°	6.8
67.5°	4.1
70°	2.7
72.5°	1.4
75°	1.4
77.5°	1.4
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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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Scaled Data Report



(END OF REPORT)