

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: P641672

Luminaire Tested: ML5612LSVWFL97FS1E - 593TBZB - 600LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641672  
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 - 600LM - 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: 642.1 lumens  
Efficiency: N/A  
Efficacy: 62.3 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

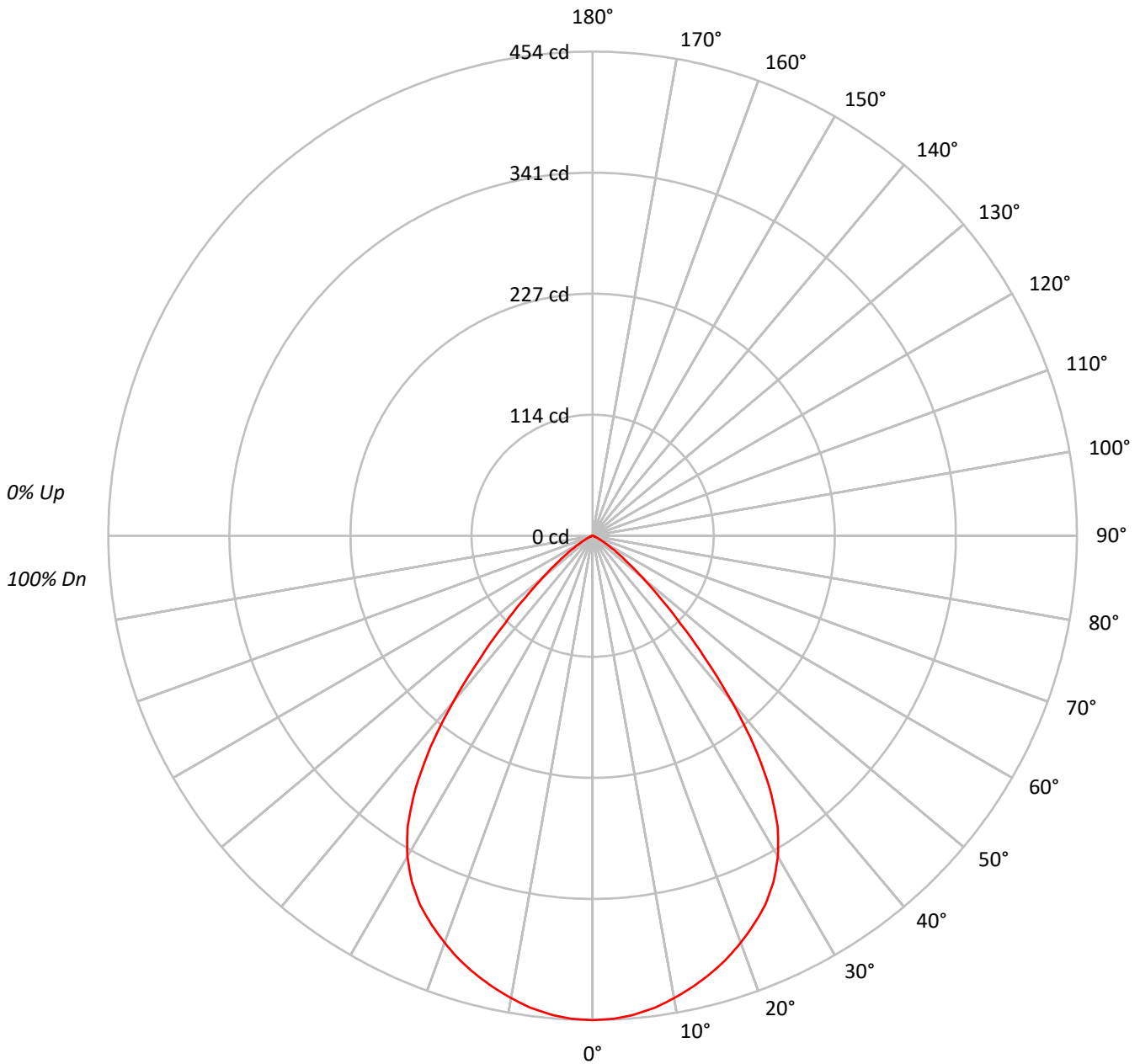
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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

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

	0°
0°	35855
5°	35715
10°	35286
15°	34758
20°	34107
25°	33308
30°	31667
35°	27908
40°	20919
45°	12995
50°	7418
55°	3977
60°	1942
65°	822
70°	415
75°	275
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12995 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.7	6.6
10°-20°	119.8	18.7
20°-30°	175.2	27.3
30°-40°	176.8	27.5
40°-50°	93.3	14.5
50°-60°	28.0	4.4
60°-70°	5.4	0.8
70°-80°	0.9	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°	337.7	52.6
0°-40°	514.5	80.1
0°-60°	635.8	99.0
0°-90°	642.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	642.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	454	
5°	451	43
15°	425	120
25°	382	175
35°	290	177
45°	116	93
55°	29	28
65°	4	5
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	454.2
2.5°	453.3
5°	450.7
7.5°	446.3
10°	440.2
12.5°	433.2
15°	425.3
17.5°	416.5
20°	406.0
22.5°	394.7
25°	382.4
27.5°	366.7
30°	347.4
32.5°	322.9
35°	289.6
37.5°	249.4
40°	203.0
42.5°	156.6
45°	116.4
47.5°	84.9
50°	60.4
52.5°	42.0
55°	28.9
57.5°	19.3
60°	12.3
62.5°	7.9
65°	4.4
67.5°	2.6
70°	1.8
72.5°	0.9
75°	0.9
77.5°	0.9
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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(END OF REPORT)