

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: P641408

Luminaire Tested: ML5612LSVWFL7597FS1E - 596WB - 900LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641408  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-81)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL7597FS1E - 596WB - 900LM - 3500K  
Description: ML56 RR, 75D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

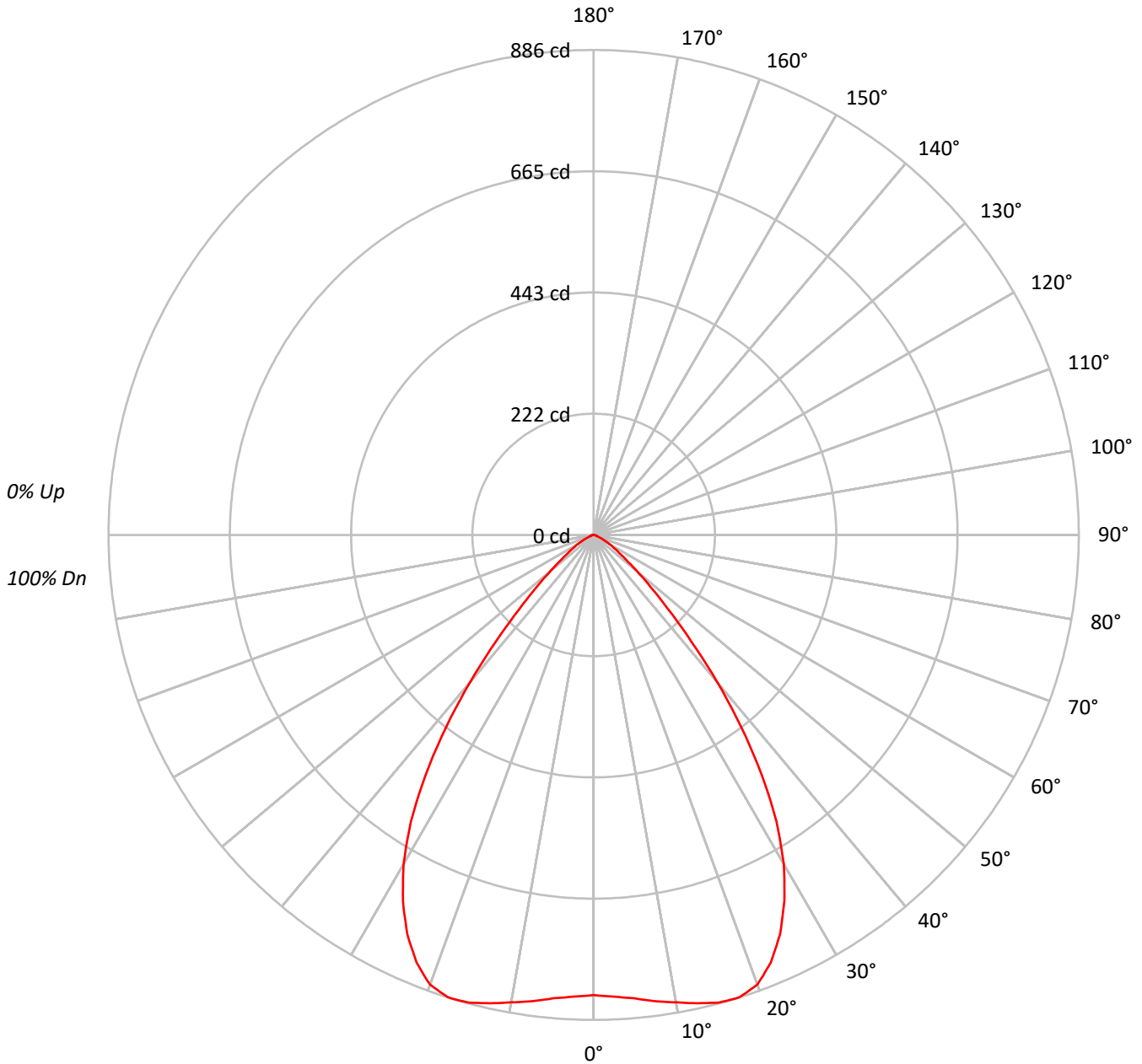
Lumens per Lamp: N/A  
Luminaire Lumens: 1262.3 lumens  
Efficiency: N/A  
Efficacy: 94.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.1  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

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	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92			92
2	106	101	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83			83
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	82	77	73	80	75	72	78	74	71	69			69
5	88	78	72	67	86	77	71	67	76	70	66	74	69	65	72	68	65	63			63
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	59	58			58
7	78	67	61	56	76	67	60	56	65	60	55	64	59	55	63	58	55	53			53
8	73	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	50	49			49
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45			45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42			42

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

	0°
0°	66366
5°	67348
10°	69514
15°	72286
20°	73439
25°	70117
30°	63288
35°	51567
40°	36129
45°	21502
50°	12748
55°	7776
60°	5273
65°	3007
70°	1593
75°	1403
80°	1591
85°	1087

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 21502 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.7	6.5
10°-20°	249.4	19.8
20°-30°	366.5	29.0
30°-40°	329.0	26.1
40°-50°	157.3	12.5
50°-60°	54.1	4.3
60°-70°	17.4	1.4
70°-80°	5.0	0.4
80°-90°	1.8	0.1
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°	697.7	55.3
0°-40°	1026.7	81.3
0°-60°	1238.1	98.1
0°-90°	1262.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1262.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	841	
5°	850	82
15°	884	249
25°	805	367
35°	535	329
45°	193	157
55°	56	54
65°	16	17
75°	5	5
85°	1	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	840.7
2.5°	844.2
5°	849.9
7.5°	859.2
10°	867.2
12.5°	876.5
15°	884.5
17.5°	885.7
20°	874.2
22.5°	845.3
25°	805.0
27.5°	754.2
30°	694.3
32.5°	621.6
35°	535.1
37.5°	442.8
40°	350.6
42.5°	264.1
45°	192.6
47.5°	141.8
50°	103.8
52.5°	75.0
55°	56.5
57.5°	43.8
60°	33.4
62.5°	24.2
65°	16.1
67.5°	10.4
70°	6.9
72.5°	5.8
75°	4.6
77.5°	3.5
80°	3.5
82.5°	2.3
85°	1.2
87.5°	1.2
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)