

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: P641432

Luminaire Tested: ML5612LSVWFL7597FS1E - 692H - 600LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641432  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-84)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL7597FS1E - 692H - 600LM - 3000K  
Description: ML56 RR, 75D TIR OPTIC, 6" HAZE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

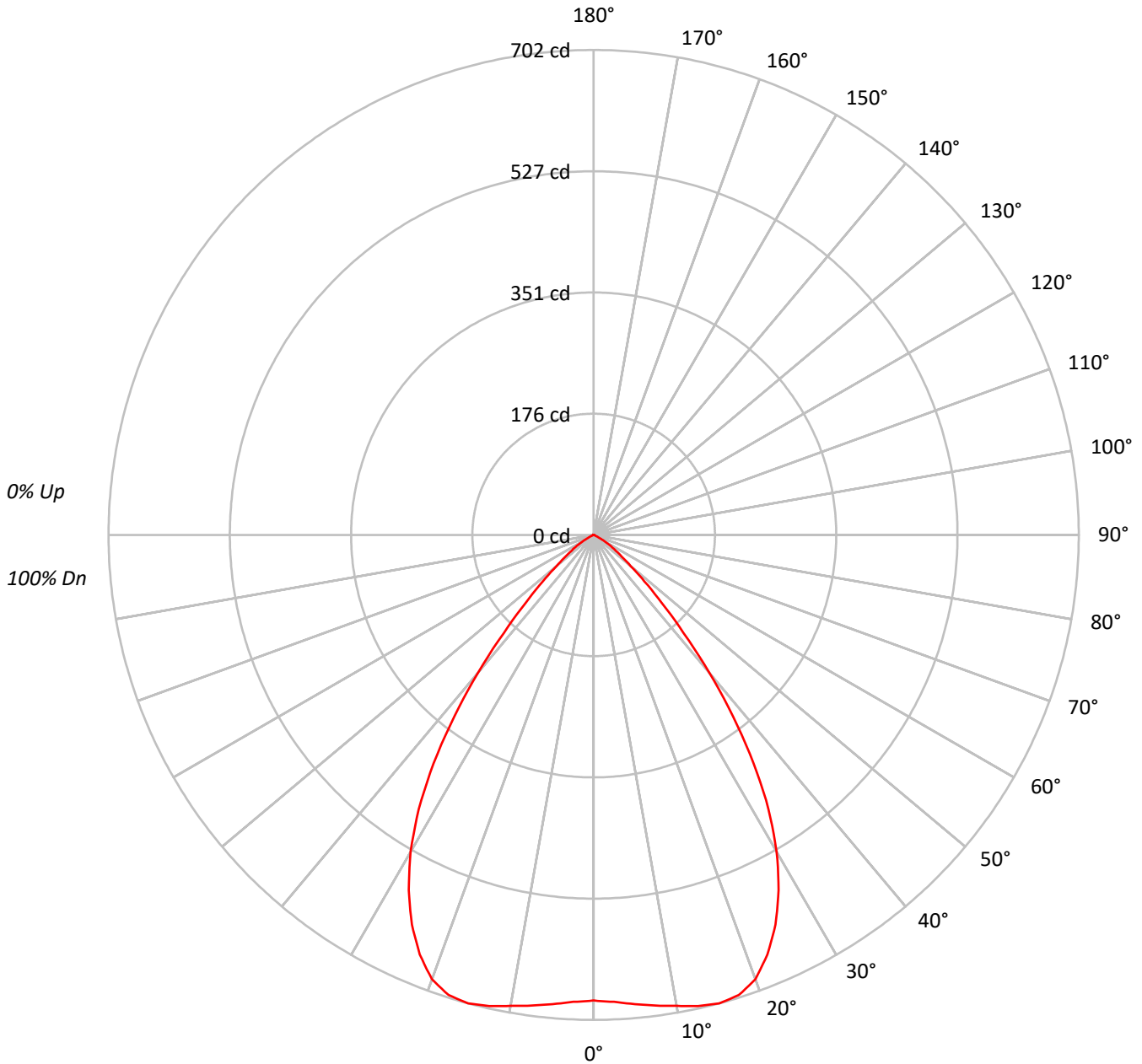
Lumens per Lamp: N/A  
Luminaire Lumens: 949.0 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.08  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (Ain): 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	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																																				
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92																																				
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84																																				
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77																																				
4	94	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	70																																				
5	89	80	73	68	87	79	73	68	77	71	67	75	70	67	73	69	66	65																																				
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59																																				
7	79	69	62	57	77	68	62	57	67	61	57	65	60	56	64	60	56	55																																				
8	74	64	57	53	73	63	57	53	62	56	52	61	56	52	60	55	52	50																																				
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47																																				
10	67	56	50	45	66	55	49	45	55	49	45	54	49	45	53	48	45	43																																				

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

	0°
0°	332488
5°	337671
10°	346836
15°	358519
20°	359340
25°	338825
30°	301773
35°	243211
40°	167198
45°	96986
50°	53653
55°	32343
60°	17268
65°	5137
70°	1298
75°	1716
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 96986 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.4	6.9
10°-20°	197.4	20.8
20°-30°	283.3	29.9
30°-40°	248.1	26.1
40°-50°	113.3	11.9
50°-60°	35.3	3.7
60°-70°	5.7	0.6
70°-80°	0.6	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°	546.1	57.5
0°-40°	794.2	83.7
0°-60°	942.8	99.3
0°-90°	949.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	949.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	674	
5°	682	65
15°	702	197
25°	622	283
35°	404	248
45°	139	113
55°	38	35
65°	4	6
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	673.9
2.5°	676.6
5°	681.8
7.5°	687.1
10°	692.3
12.5°	698.4
15°	701.9
17.5°	698.4
20°	684.4
22.5°	657.3
25°	622.4
27.5°	579.5
30°	529.7
32.5°	471.1
35°	403.8
37.5°	331.3
40°	259.6
42.5°	192.3
45°	139.0
47.5°	99.6
50°	69.9
52.5°	50.7
55°	37.6
57.5°	27.1
60°	17.5
62.5°	7.9
65°	4.4
67.5°	1.7
70°	0.9
72.5°	0.9
75°	0.9
77.5°	0.0
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)