

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: P641495

Luminaire Tested: ML5612LSVWFL7597FS1E - 693SNB - 600LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641495  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-88)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL7597FS1E - 693SNB - 600LM - 5000K  
Description: ML56 RR, 75D TIR OPTIC, 6" SATIN NICKLE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

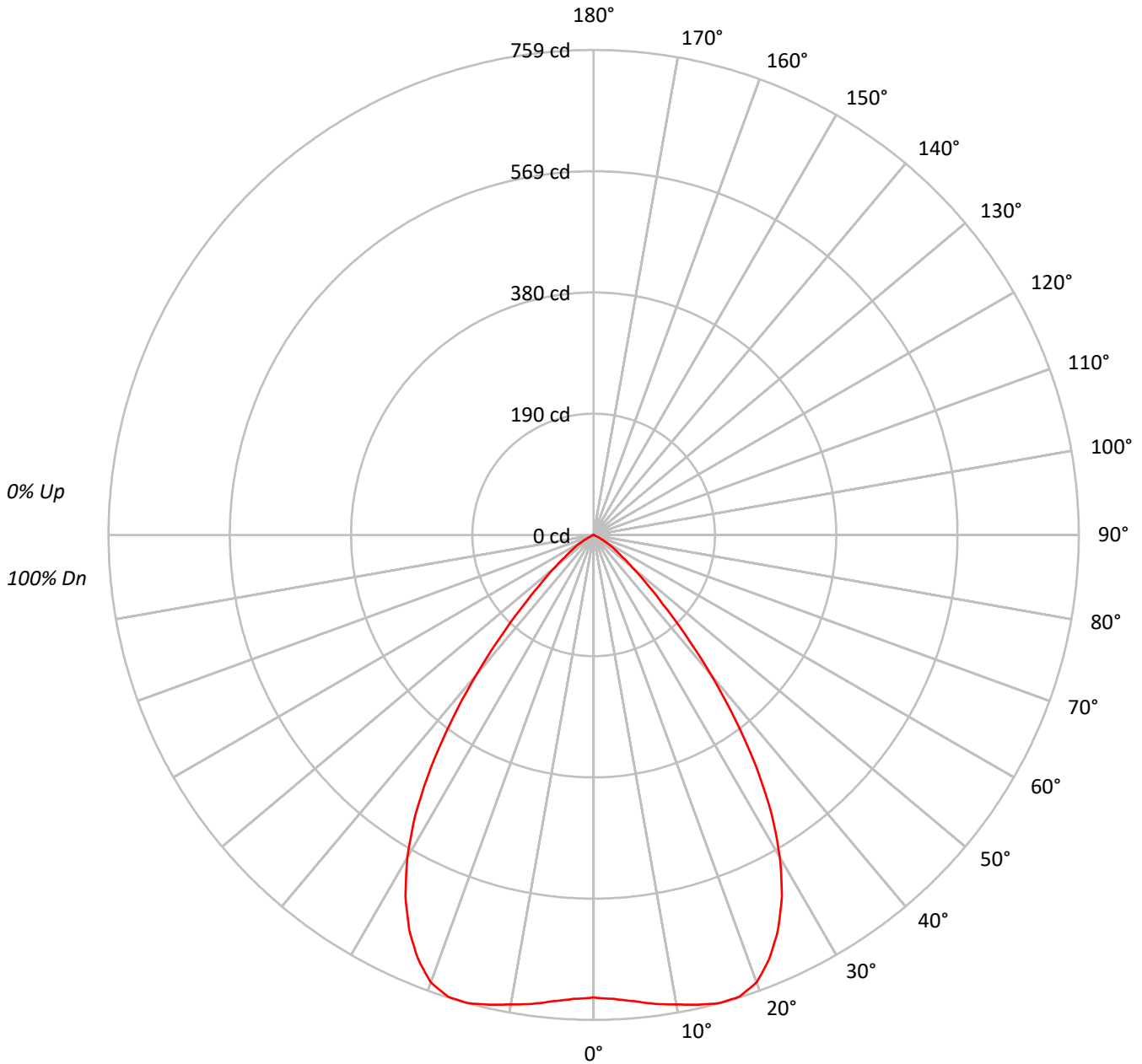
Lumens per Lamp: N/A  
Luminaire Lumens: 1038.7 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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									
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																			
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	92	85	79	75	83	78	74	81	76	73	79	75	72	70																			
5	89	80	73	68	87	79	72	68	77	71	67	75	70	67	73	69	66	64																			
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	68	64	61	59																			
7	79	68	62	57	77	68	61	57	66	61	57	65	60	56	64	59	56	54																			
8	74	64	57	53	73	63	57	52	62	56	52	61	56	52	60	55	52	50																			
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	51	48	46																			
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43																			

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

	0°
0°	39690
5°	40320
10°	41538
15°	43065
20°	43480
25°	41277
30°	36885
35°	29667
40°	20367
45°	11854
50°	6772
55°	4072
60°	2226
65°	623
70°	160
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11854 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.4	6.8
10°-20°	213.7	20.6
20°-30°	310.5	29.9
30°-40°	272.5	26.2
40°-50°	125.2	12.1
50°-60°	39.8	3.8
60°-70°	6.4	0.6
70°-80°	0.1	0.0
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°	594.7	57.3
0°-40°	867.2	83.5
0°-60°	1032.2	99.4
0°-90°	1038.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1038.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	724	
5°	733	70
15°	759	214
25°	682	311
35°	443	272
45°	153	125
55°	43	40
65°	5	6
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	724.0
2.5°	726.9
5°	732.7
7.5°	740.4
10°	746.2
12.5°	753.0
15°	758.8
17.5°	757.9
20°	745.3
22.5°	718.2
25°	682.4
27.5°	637.8
30°	582.7
32.5°	518.8
35°	443.3
37.5°	363.0
40°	284.6
42.5°	212.9
45°	152.9
47.5°	110.3
50°	79.4
52.5°	56.1
55°	42.6
57.5°	31.0
60°	20.3
62.5°	9.7
65°	4.8
67.5°	1.0
70°	1.0
72.5°	0.0
75°	0.0
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)