

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: P641343

Luminaire Tested: ML5612LSVWFL7597FS1E - 593WB - 600LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641343  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-74)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL7597FS1E - 593WB - 600LM - 3500K  
Description: ML56 RR, 75D TIR OPTIC, 5" WHITE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 966.8 lumens  
Efficiency: N/A  
Efficacy: 93.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

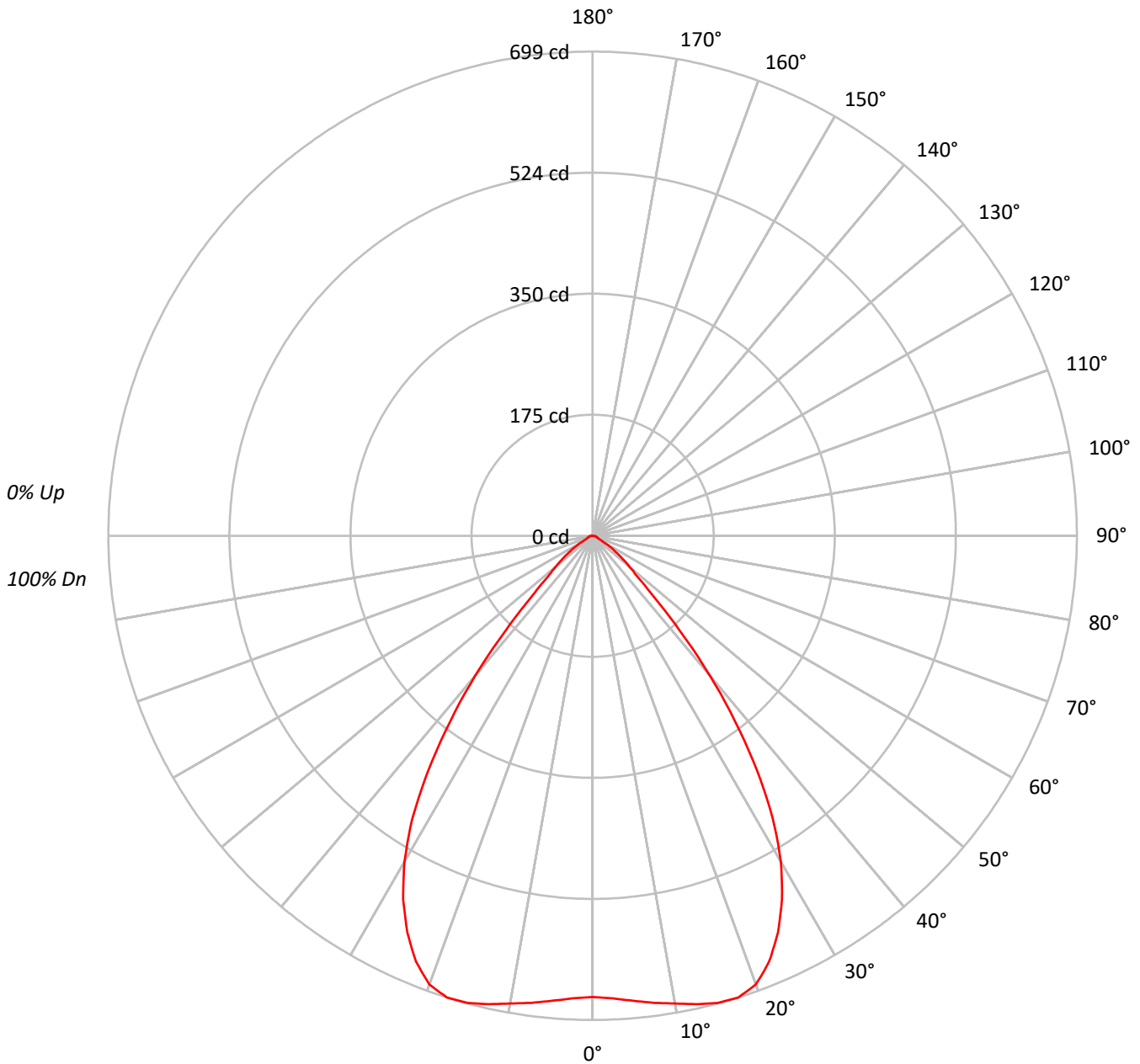
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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									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	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92																																				
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85	84																																				
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76																																				
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70																																				
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64																																				
6	83	73	66	62	82	72	66	61	71	65	61	69	64	61	68	64	60	59																																				
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	55	54																																				
8	74	63	57	52	73	63	56	52	62	56	52	61	55	51	60	55	51	50																																				
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	46																																				
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43																																				

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

	0°
0°	52551
5°	53394
10°	54949
15°	57053
20°	57889
25°	55092
30°	49542
35°	39916
40°	27123
45°	14044
50°	8609
55°	5684
60°	2842
65°	1681
70°	1662
75°	1647
80°	1637
85°	1630

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14044 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.7	6.7
10°-20°	196.9	20.4
20°-30°	288.1	29.8
30°-40°	254.0	26.3
40°-50°	107.6	11.1
50°-60°	37.4	3.9
60°-70°	10.4	1.1
70°-80°	5.7	0.6
80°-90°	2.0	0.2
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°	549.7	56.9
0°-40°	803.7	83.1
0°-60°	948.7	98.1
0°-90°	966.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	966.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	666	
5°	674	65
15°	698	197
25°	632	288
35°	414	254
45°	126	108
55°	41	37
65°	9	10
75°	5	6
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	665.7
2.5°	668.4
5°	673.8
7.5°	680.1
10°	685.5
12.5°	692.7
15°	698.1
17.5°	699.0
20°	689.1
22.5°	665.7
25°	632.5
27.5°	592.1
30°	543.5
32.5°	484.2
35°	414.2
37.5°	337.8
40°	263.2
42.5°	186.9
45°	125.8
47.5°	87.1
50°	70.1
52.5°	53.9
55°	41.3
57.5°	29.6
60°	18.0
62.5°	12.6
65°	9.0
67.5°	8.1
70°	7.2
72.5°	6.3
75°	5.4
77.5°	4.5
80°	3.6
82.5°	2.7
85°	1.8
87.5°	0.9
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)