

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: P641575

Luminaire Tested: ML5612LSVWFL7597FS1E - 696WB - 900LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641575  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-92)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL7597FS1E - 696WB - 900LM - 5000K  
Description: ML56 RR, 75D TIR OPTIC, 6" SHALLOW WHITE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

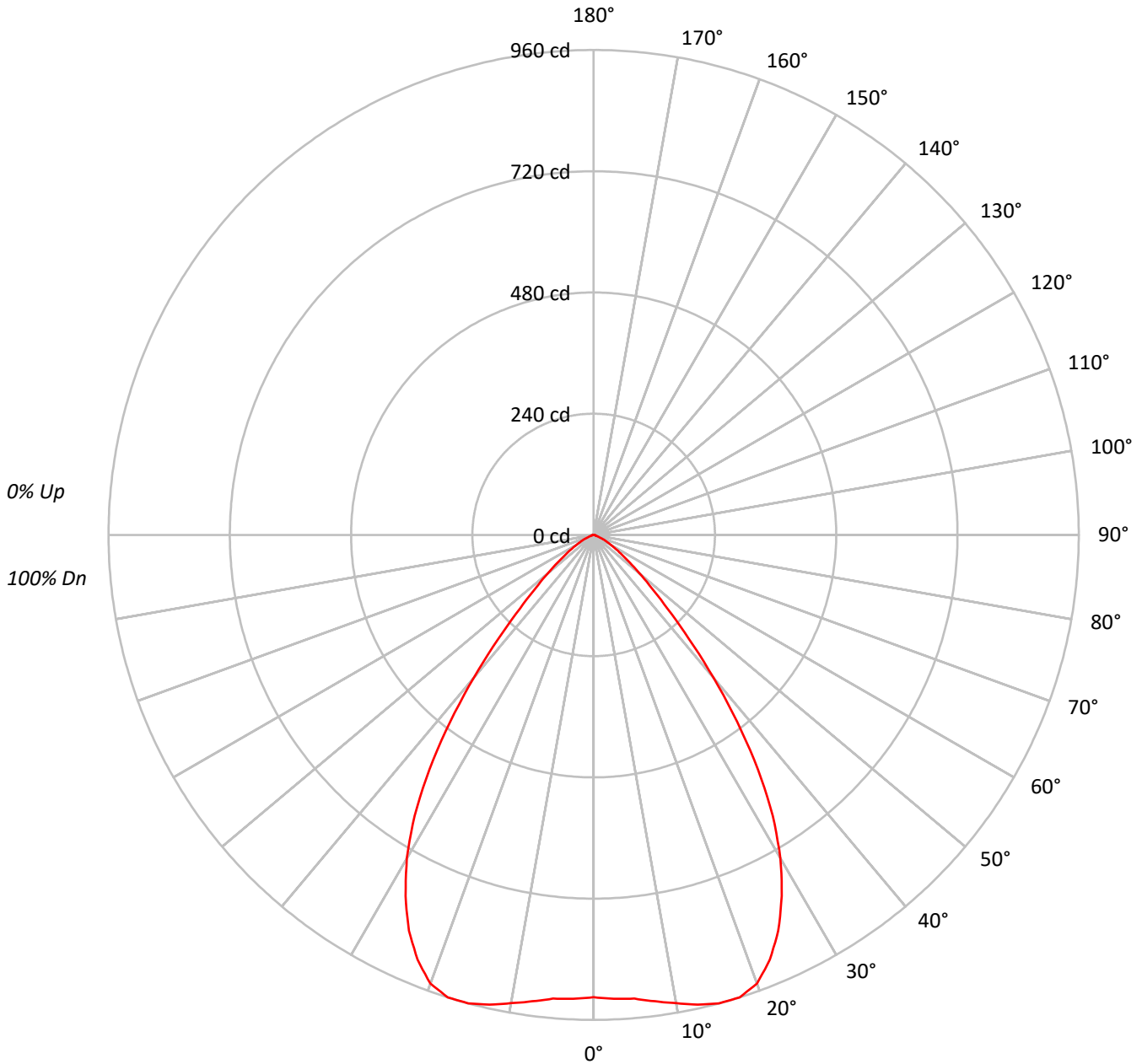
Lumens per Lamp: N/A  
Luminaire Lumens: 1361.1 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 13.3  
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	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	99	98	96	96	95	94	92			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	90	87	85	83			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	77	76			
4	94	85	79	74	92	84	78	73	81	76	72	79	75	71	77	74	71	69			
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63			
6	83	73	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58			
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	55	53			
8	73	63	56	51	72	62	56	51	61	55	51	60	54	51	59	54	50	49			
9	69	58	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45			
10	66	55	48	44	64	54	48	44	53	48	44	52	47	43	52	47	43	42			

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

	0°
0°	50171
5°	50704
10°	52393
15°	54473
20°	55130
25°	52285
30°	46786
35°	37925
40°	26357
45°	15963
50°	10157
55°	6518
60°	4353
65°	2893
70°	1394
75°	784
80°	789
85°	755

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15963 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.7	6.5
10°-20°	270.5	19.9
20°-30°	393.3	28.9
30°-40°	348.2	25.6
40°-50°	168.2	12.4
50°-60°	64.1	4.7
60°-70°	22.1	1.6
70°-80°	4.4	0.3
80°-90°	1.7	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°	752.4	55.3
0°-40°	1100.6	80.9
0°-60°	1332.9	97.9
0°-90°	1361.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1361.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	915	
5°	921	89
15°	960	270
25°	864	393
35°	567	348
45°	206	168
55°	68	64
65°	22	22
75°	4	4
85°	1	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	915.2
2.5°	918.9
5°	921.4
7.5°	931.3
10°	941.2
12.5°	952.4
15°	959.8
17.5°	959.8
20°	945.0
22.5°	910.2
25°	864.4
27.5°	806.1
30°	739.1
32.5°	659.7
35°	566.7
37.5°	466.3
40°	368.3
42.5°	279.0
45°	205.9
47.5°	153.8
50°	119.1
52.5°	90.5
55°	68.2
57.5°	50.8
60°	39.7
62.5°	29.8
65°	22.3
67.5°	13.6
70°	8.7
72.5°	5.0
75°	3.7
77.5°	2.5
80°	2.5
82.5°	2.5
85°	1.2
87.5°	1.2
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)