

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: P643729

Luminaire Tested: ML5615LSVWFL9FS1E - 696WB - 1500LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643729  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-115)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL9FS1E - 696WB - 1500LM - 4000K  
Description: ML56 RR, MILKY OPTIC, 6" SHALLOW WHITE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

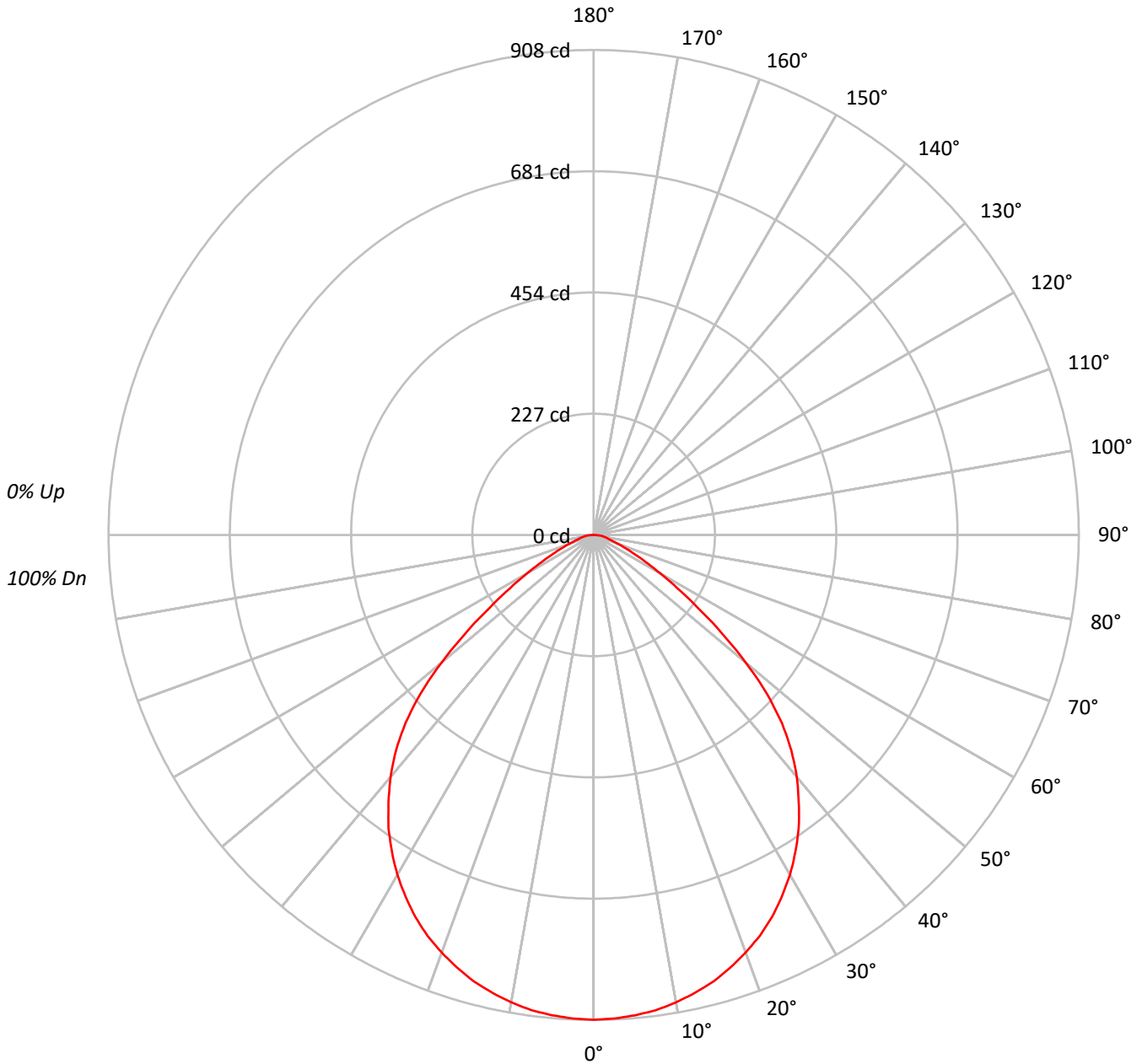
Lumens per Lamp: N/A  
Luminaire Lumens: 1836.6 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.28  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 17.1  
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			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78			
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68			
4	88	78	71	65	86	77	70	64	75	68	64	72	67	63	70	66	62	60			
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53			
6	76	64	57	51	75	64	56	51	62	55	50	60	54	50	59	54	49	48			
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43			
8	66	54	46	41	65	54	46	41	52	46	41	51	45	41	50	44	40	39			
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35			
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32			

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

	0°
0°	49771
5°	49670
10°	49459
15°	49121
20°	48532
25°	47755
30°	46513
35°	44798
40°	42344
45°	38616
50°	31632
55°	22795
60°	15690
65°	10766
70°	7646
75°	5994
80°	6125
85°	6667

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 38616 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.7	4.7
10°-20°	243.9	13.3
20°-30°	363.0	19.8
30°-40°	417.0	22.7
40°-50°	378.5	20.6
50°-60°	218.5	11.9
60°-70°	86.6	4.7
70°-80°	32.6	1.8
80°-90°	10.8	0.6
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°	692.6	37.7
0°-40°	1109.6	60.4
0°-60°	1706.6	92.9
0°-90°	1836.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1836.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	908	
5°	903	86
15°	866	244
25°	790	363
35°	669	417
45°	498	378
55°	238	219
65°	83	87
75°	28	33
85°	11	11
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	907.9
2.5°	906.1
5°	902.6
7.5°	897.3
10°	888.5
12.5°	877.9
15°	865.5
17.5°	849.6
20°	831.9
22.5°	812.5
25°	789.5
27.5°	763.0
30°	734.8
32.5°	703.0
35°	669.4
37.5°	630.6
40°	591.7
42.5°	547.6
45°	498.1
47.5°	439.8
50°	370.9
52.5°	302.0
55°	238.5
57.5°	185.5
60°	143.1
62.5°	109.5
65°	83.0
67.5°	63.6
70°	47.7
72.5°	37.1
75°	28.3
77.5°	24.7
80°	19.4
82.5°	15.9
85°	10.6
87.5°	3.5
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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Scaled Data Report



(END OF REPORT)