

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: P643713

Luminaire Tested: ML5615LSVWFL9FS1E - 694WB - 1500LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643713  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-113)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL9FS1E - 694WB - 1500LM - 3500K  
Description: ML56 RR, MILKY OPTIC, 6" WHITE GIMBAL TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

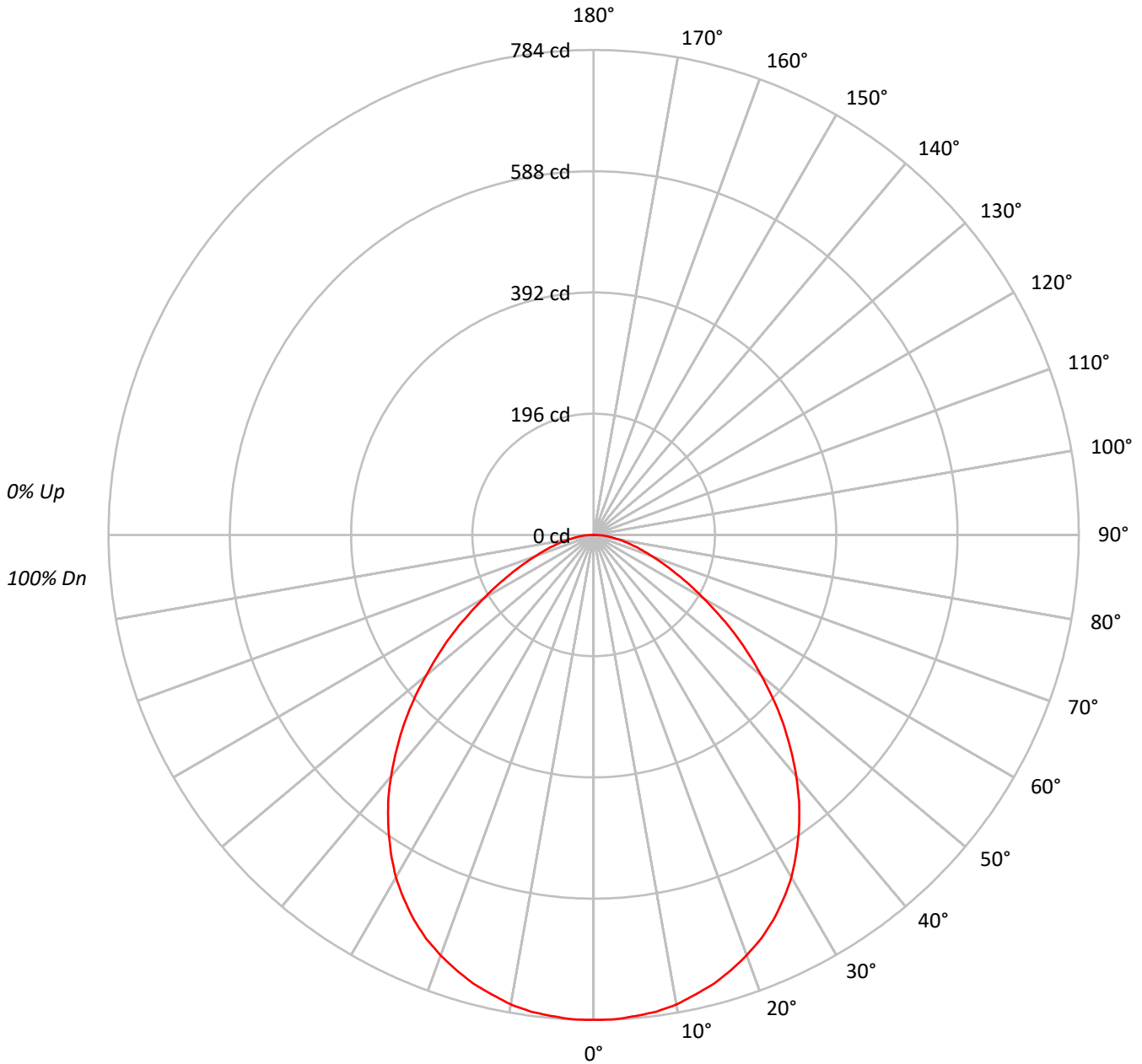
Lumens per Lamp: N/A  
Luminaire Lumens: 1784.1 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.28  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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									
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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86																			
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74																			
3	93	83	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64																			
4	86	75	67	61	84	73	66	60	71	64	59	69	63	59	67	62	58	56																			
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49																			
6	74	61	53	47	72	60	52	46	58	51	46	57	51	46	55	50	45	43																			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39																			
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35																			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32																			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29																			

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

	0°
0°	42974
5°	42956
10°	42907
15°	42622
20°	42185
25°	41555
30°	40468
35°	38715
40°	36461
45°	33639
50°	30131
55°	26541
60°	22520
65°	18977
70°	16060
75°	13916
80°	12438
85°	12391

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 33639 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.2	4.2
10°-20°	211.7	11.9
20°-30°	315.8	17.7
30°-40°	360.9	20.2
40°-50°	333.6	18.7
50°-60°	248.2	13.9
60°-70°	147.0	8.2
70°-80°	71.3	4.0
80°-90°	21.4	1.2
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°	601.7	33.7
0°-40°	962.6	54.0
0°-60°	1544.4	86.6
0°-90°	1784.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1784.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	784	
5°	781	74
15°	751	212
25°	687	316
35°	578	361
45°	434	334
55°	278	248
65°	146	147
75°	66	71
85°	20	21
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	783.9
2.5°	783.9
5°	780.6
7.5°	777.3
10°	770.8
12.5°	760.9
15°	751.0
17.5°	737.9
20°	723.1
22.5°	706.7
25°	687.0
27.5°	663.9
30°	639.3
32.5°	609.7
35°	578.5
37.5°	545.6
40°	509.5
42.5°	471.7
45°	433.9
47.5°	394.4
50°	353.3
52.5°	315.5
55°	277.7
57.5°	239.9
60°	205.4
62.5°	174.2
65°	146.3
67.5°	121.6
70°	100.2
72.5°	82.2
75°	65.7
77.5°	52.6
80°	39.4
82.5°	27.9
85°	19.7
87.5°	11.5
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)