

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: P643715

Luminaire Tested: ML5615LSVWFL9FS1E - 694WB - 1500LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643715  
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 - 5000K  
Description: ML56 RR, MILKY OPTIC, 6" WHITE GIMBAL TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

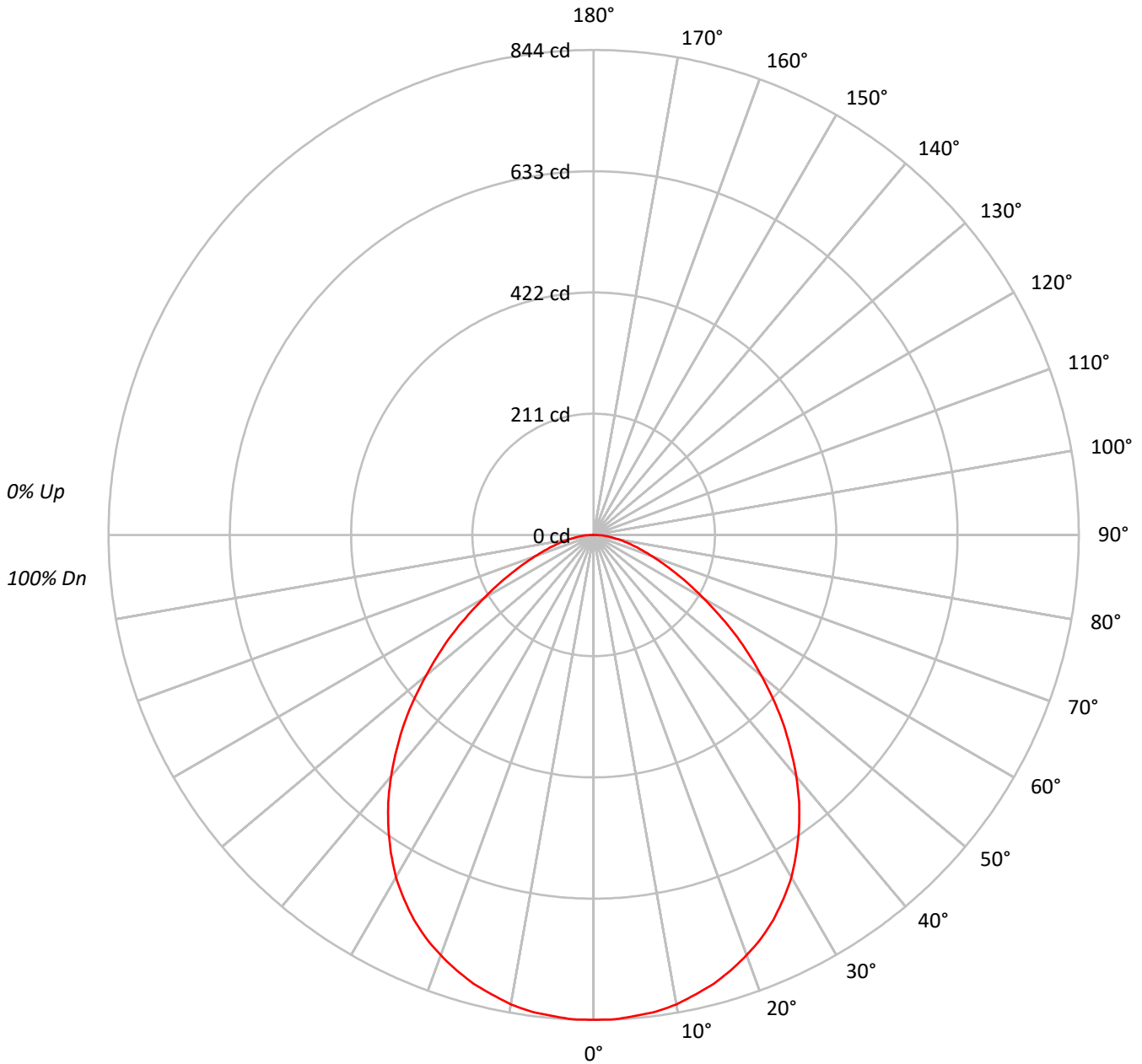
Lumens per Lamp: N/A  
Luminaire Lumens: 1920.4 lumens  
Efficiency: N/A  
Efficacy: 112.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.28  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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				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			100
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86			86
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74			74
3	93	83	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64			64
4	86	75	67	61	84	73	66	60	71	64	59	69	63	59	67	62	58	56			56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49			49
6	74	61	53	47	72	60	52	46	58	51	46	57	51	46	55	50	45	43			43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39			39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35			35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32			32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29			29

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

	0°
0°	46257
5°	46236
10°	46180
15°	45880
20°	45405
25°	44724
30°	43557
35°	41673
40°	39245
45°	36205
50°	32434
55°	28568
60°	24241
65°	20417
70°	17295
75°	14996
80°	13417
85°	13335

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 36205 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.9	4.2
10°-20°	227.9	11.9
20°-30°	339.9	17.7
30°-40°	388.5	20.2
40°-50°	359.0	18.7
50°-60°	267.2	13.9
60°-70°	158.2	8.2
70°-80°	76.7	4.0
80°-90°	23.1	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°	647.6	33.7
0°-40°	1036.1	54.0
0°-60°	1662.4	86.6
0°-90°	1920.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1920.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	844	
5°	840	80
15°	808	228
25°	739	340
35°	623	388
45°	467	359
55°	299	267
65°	157	158
75°	71	77
85°	21	23
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	843.8
2.5°	843.8
5°	840.2
7.5°	836.7
10°	829.6
12.5°	819.0
15°	808.4
17.5°	794.2
20°	778.3
22.5°	760.6
25°	739.4
27.5°	714.6
30°	688.1
32.5°	656.3
35°	622.7
37.5°	587.3
40°	548.4
42.5°	507.7
45°	467.0
47.5°	424.5
50°	380.3
52.5°	339.6
55°	298.9
57.5°	258.3
60°	221.1
62.5°	187.5
65°	157.4
67.5°	130.9
70°	107.9
72.5°	88.4
75°	70.8
77.5°	56.6
80°	42.5
82.5°	30.1
85°	21.2
87.5°	12.4
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)