

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: P643658

Luminaire Tested: ML5615LSVWFL9FS1E - 693SNB - 900LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643658  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-111)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL9FS1E - 693SNB - 900LM - 3500K  
Description: ML56 RR, MILKY OPTIC, 6" SATIN NICKLE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

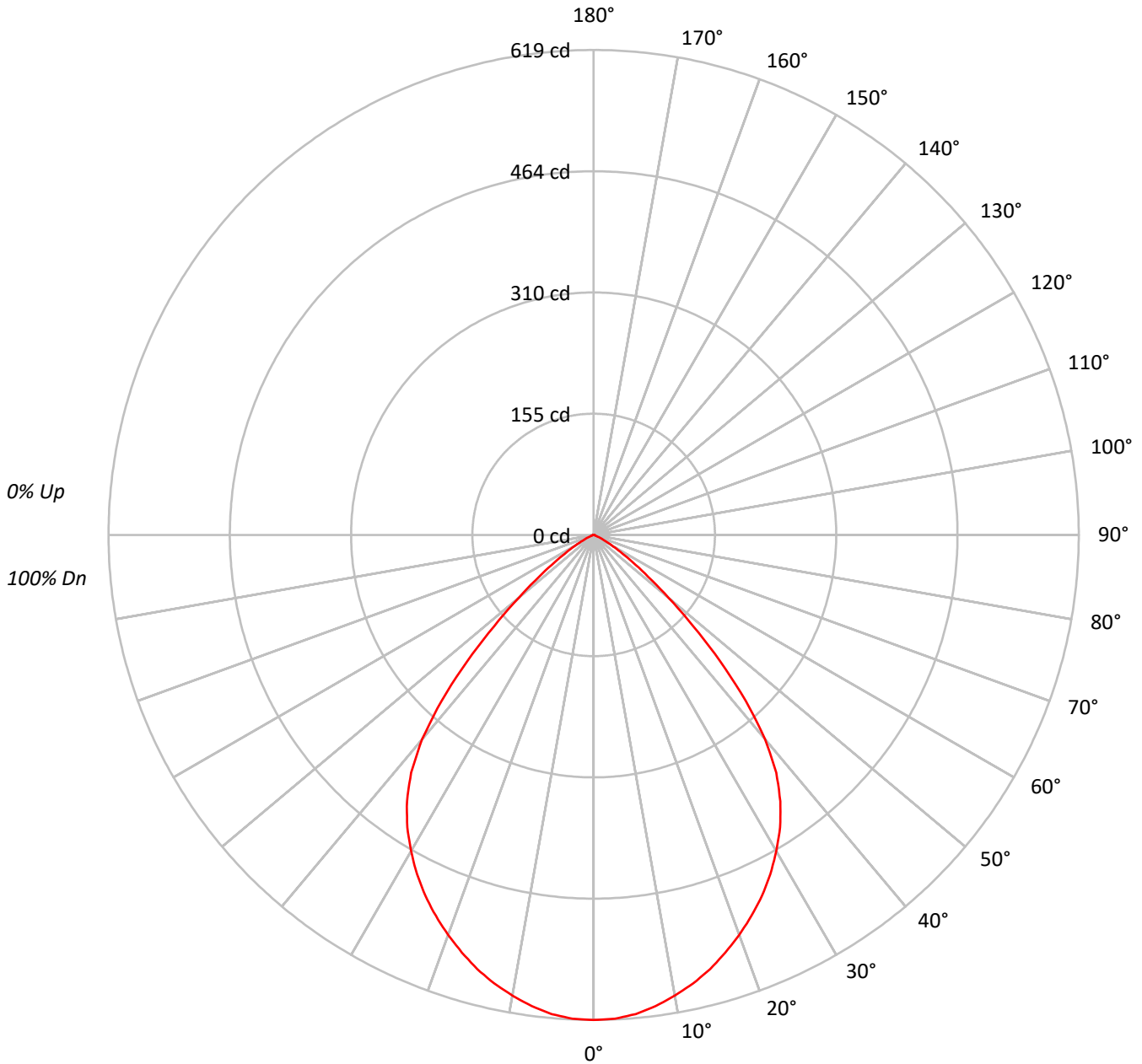
Lumens per Lamp: N/A  
Luminaire Lumens: 956.4 lumens  
Efficiency: N/A  
Efficacy: 91.1 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.18  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 10.5  
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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91			91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82			82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74			74
4	92	83	77	72	90	82	76	71	80	75	70	78	73	69	76	72	69	67			67
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60			60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55			55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50			50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	47	56	51	47	46			46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	43	42			42
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39			39

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

	0°
0°	33939
5°	33783
10°	33233
15°	32560
20°	31684
25°	30740
30°	29492
35°	27786
40°	24346
45°	17692
50°	10635
55°	5754
60°	2895
65°	1232
70°	337
75°	233
80°	347
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17692 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.0	6.1
10°-20°	161.4	16.9
20°-30°	233.5	24.4
30°-40°	256.6	26.8
40°-50°	175.8	18.4
50°-60°	58.3	6.1
60°-70°	10.7	1.1
70°-80°	1.6	0.2
80°-90°	0.4	0.0
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°	453.0	47.4
0°-40°	709.6	74.2
0°-60°	943.7	98.7
0°-90°	956.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	956.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	619	
5°	614	58
15°	574	161
25°	508	234
35°	415	257
45°	228	176
55°	60	58
65°	10	11
75°	1	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	619.1
2.5°	618.1
5°	613.9
7.5°	606.5
10°	597.0
12.5°	586.4
15°	573.7
17.5°	558.9
20°	543.1
22.5°	526.2
25°	508.2
27.5°	488.1
30°	465.9
32.5°	442.7
35°	415.2
37.5°	382.5
40°	340.2
42.5°	287.4
45°	228.2
47.5°	172.2
50°	124.7
52.5°	87.7
55°	60.2
57.5°	40.1
60°	26.4
62.5°	15.8
65°	9.5
67.5°	4.2
70°	2.1
72.5°	2.1
75°	1.1
77.5°	1.1
80°	1.1
82.5°	1.1
85°	0.0
87.5°	0.0
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)