

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: P643520

Luminaire Tested: ML5615LSVWFL9FS1E - 594SNB - 1500LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643520  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-102)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL9FS1E - 594SNB - 1500LM - 5000K  
Description: ML56 RR, MILKY OPTIC, 5" SATIN NICKLE GIMBAL TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

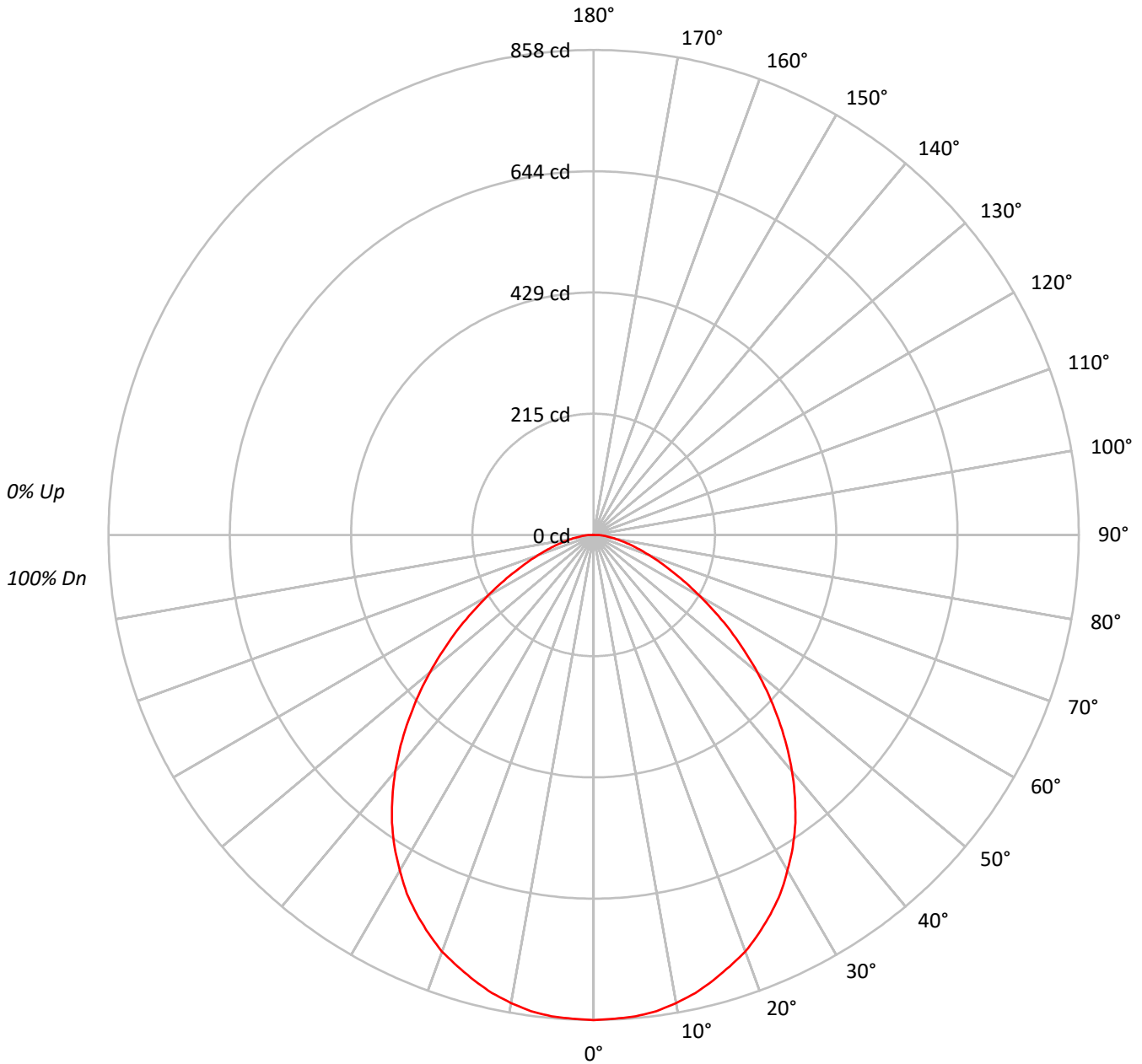
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1908.0 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.26  
Luminous Opening: Circular (Dia: 0.42' 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				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	108	104	100	97	100	97	94	96	93	91	92	90	89	87			87
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	83	79	76	74			74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64			64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56			56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49			49
6	74	61	53	47	72	60	53	47	59	52	46	57	51	46	56	50	46	44			44
7	69	56	48	42	67	55	47	42	54	47	42	52	46	41	51	45	41	39			39
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35			35
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32			32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29			29

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

	0°
0°	67771
5°	67752
10°	67405
15°	66696
20°	65895
25°	64473
30°	62476
35°	59922
40°	56255
45°	51667
50°	46422
55°	40601
60°	34308
65°	28710
70°	24050
75°	20466
80°	17684
85°	17571

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 51667 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.2	4.3
10°-20°	230.1	12.1
20°-30°	340.5	17.8
30°-40°	387.4	20.3
40°-50°	356.5	18.7
50°-60°	263.9	13.8
60°-70°	154.5	8.1
70°-80°	72.4	3.8
80°-90°	21.7	1.1
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°	651.8	34.2
0°-40°	1039.2	54.5
0°-60°	1659.5	87.0
0°-90°	1908.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1908.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	858	
5°	855	81
15°	816	230
25°	740	340
35°	622	387
45°	463	356
55°	295	264
65°	154	154
75°	67	72
85°	19	22
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	858.5
2.5°	856.8
5°	855.0
7.5°	849.7
10°	840.9
12.5°	830.3
15°	816.1
17.5°	800.3
20°	784.4
22.5°	763.2
25°	740.2
27.5°	715.5
30°	685.4
32.5°	655.4
35°	621.8
37.5°	584.7
40°	545.9
42.5°	505.2
45°	462.8
47.5°	420.4
50°	378.0
52.5°	335.6
55°	295.0
57.5°	254.4
60°	217.3
62.5°	183.7
65°	153.7
67.5°	127.2
70°	104.2
72.5°	84.8
75°	67.1
77.5°	51.2
80°	38.9
82.5°	28.3
85°	19.4
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)