

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: P643517

Luminaire Tested: ML5615LSVWFL9FS1E - 594SNB - 1500LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643517  
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 - 3000K  
Description: ML56 RR, MILKY OPTIC, 5" SATIN NICKLE GIMBAL TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

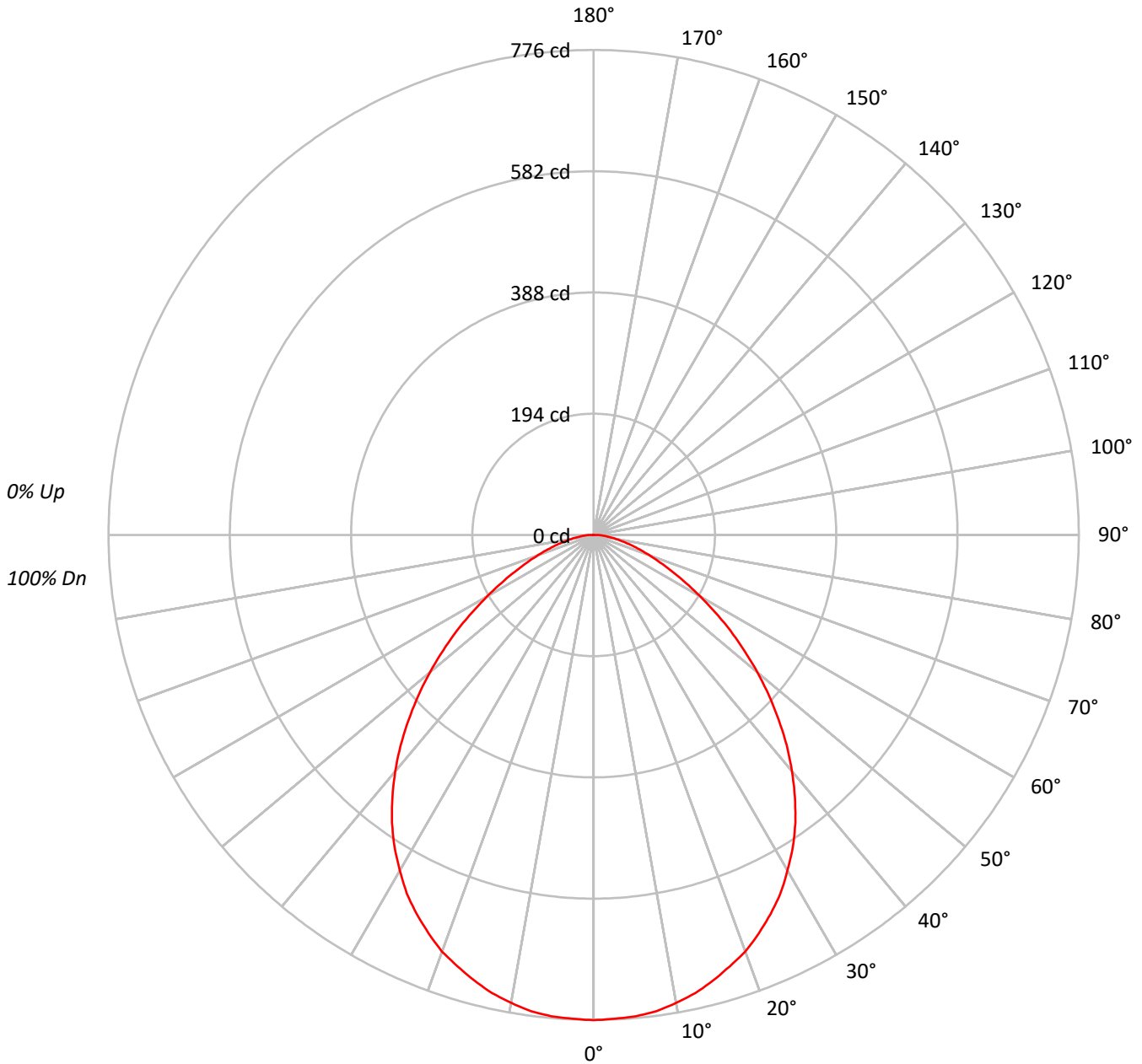
Lumens per Lamp: N/A  
Luminaire Lumens: 1725.7 lumens  
Efficiency: N/A  
Efficacy: 100.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.26  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

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									
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	108	104	100	97	100	97	94	96	93	91	92	90	89	87																			
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	83	79	76	74																			
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64																			
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56																			
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49																			
6	74	61	53	47	72	60	53	47	59	52	46	57	51	46	56	50	46	44																			
7	69	56	48	42	67	55	47	42	54	47	42	52	46	41	51	45	41	39																			
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35																			
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32																			
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29																			

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

	0°
0°	61298
5°	61278
10°	60961
15°	60330
20°	59595
25°	58306
30°	56506
35°	54198
40°	50876
45°	46732
50°	41989
55°	36719
60°	31024
65°	25964
70°	21765
75°	18514
80°	16002
85°	15941

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 46732 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.4	4.3
10°-20°	208.1	12.1
20°-30°	307.9	17.8
30°-40°	350.4	20.3
40°-50°	322.4	18.7
50°-60°	238.7	13.8
60°-70°	139.7	8.1
70°-80°	65.5	3.8
80°-90°	19.6	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°	589.5	34.2
0°-40°	939.8	54.5
0°-60°	1501.0	87.0
0°-90°	1725.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1725.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	776	
5°	773	73
15°	738	208
25°	669	308
35°	562	350
45°	419	322
55°	267	239
65°	139	140
75°	61	65
85°	18	20
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	776.5
2.5°	774.9
5°	773.3
7.5°	768.5
10°	760.5
12.5°	750.9
15°	738.2
17.5°	723.8
20°	709.4
22.5°	690.2
25°	669.4
27.5°	647.1
30°	619.9
32.5°	592.8
35°	562.4
37.5°	528.8
40°	493.7
42.5°	457.0
45°	418.6
47.5°	380.3
50°	341.9
52.5°	303.6
55°	266.8
57.5°	230.1
60°	196.5
62.5°	166.2
65°	139.0
67.5°	115.0
70°	94.3
72.5°	76.7
75°	60.7
77.5°	46.3
80°	35.2
82.5°	25.6
85°	17.6
87.5°	11.2
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)