

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: P643606

Luminaire Tested: ML5615LSVWFL9FS1E - 692SC - 1500LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643606  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-106)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL9FS1E - 692SC - 1500LM - 2700K  
Description: ML56 RR, MILKY OPTIC, 6" SPECULAR CLEAR TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1610.9 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Spacing Criteria (0/90/45): 0.54 / 0.54 / 0.69  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

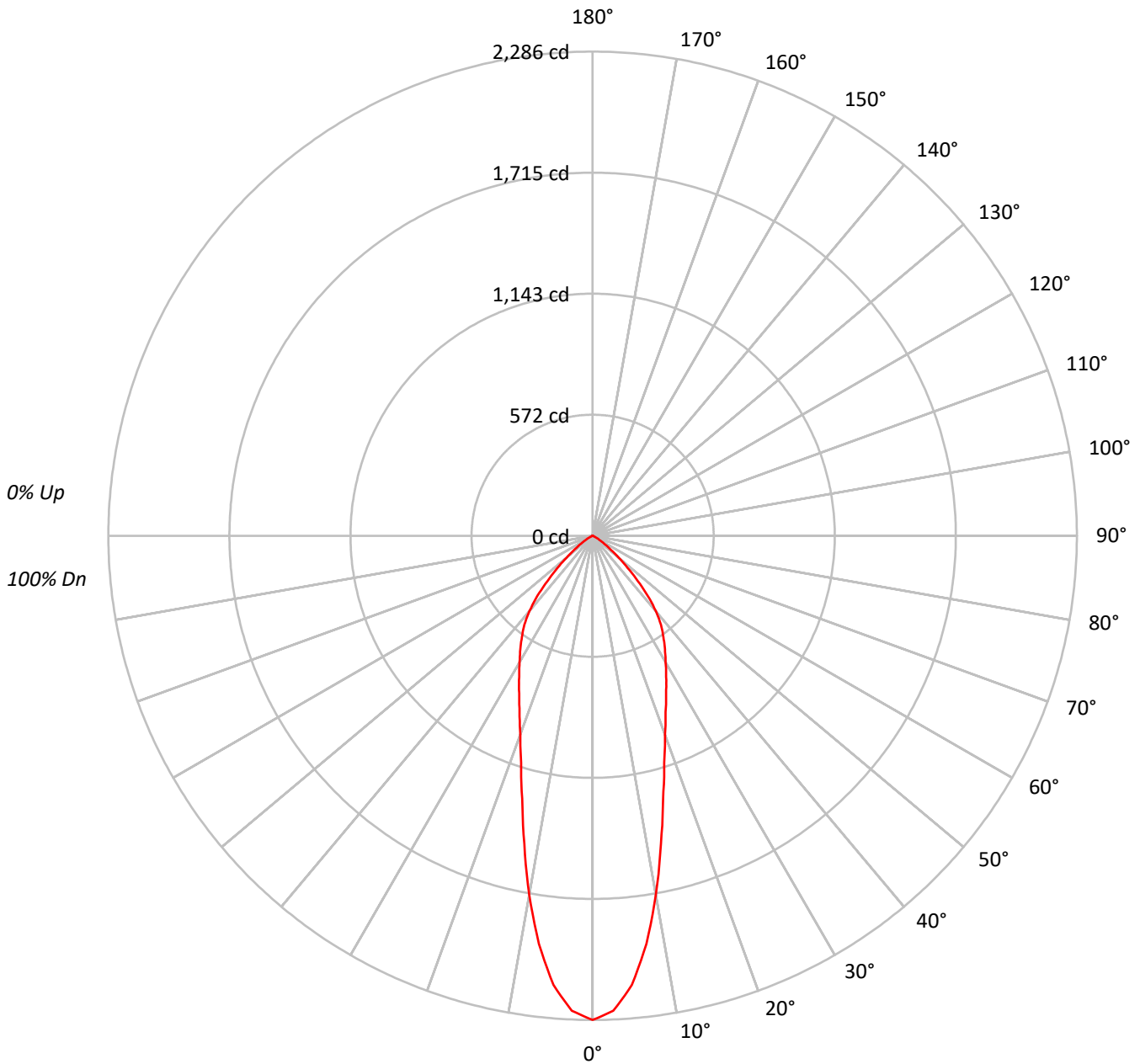
Input Watts (W): 17.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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			100																
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93			93																
2	107	102	97	93	105	100	96	92	97	93	90	93	91	88	91	89	87	85			85																
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78			78																
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	79	76	73	71			71																
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	74	70	67	66			66																
6	85	75	69	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61			61																
7	80	70	64	59	79	69	63	59	68	63	58	67	62	58	66	61	58	56			56																
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52			52																
9	72	62	55	51	71	61	55	51	60	55	51	59	54	51	58	54	50	49			49																
10	68	58	52	48	67	58	52	48	57	51	48	56	51	47	55	51	47	46			46																

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

	0°
0°	125308
5°	117136
10°	95795
15°	72855
20°	58187
25°	49600
30°	43633
35°	38943
40°	33184
45°	23406
50°	13671
55°	7140
60°	3245
65°	1012
70°	256
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 23406 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.9	11.8
10°-20°	361.9	22.5
20°-30°	379.6	23.6
30°-40°	362.0	22.5
40°-50°	233.7	14.5
50°-60°	72.5	4.5
60°-70°	10.6	0.7
70°-80°	0.6	0.0
80°-90°	0.0	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°	931.4	57.8
0°-40°	1293.4	80.3
0°-60°	1599.6	99.3
0°-90°	1610.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1610.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2286	
5°	2129	190
15°	1284	362
25°	820	380
35°	582	362
45°	302	234
55°	75	73
65°	8	11
75°	0	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2285.8
2.5°	2245.3
5°	2128.6
7.5°	1943.4
10°	1720.9
12.5°	1489.1
15°	1283.7
17.5°	1123.4
20°	997.4
22.5°	900.9
25°	820.0
27.5°	751.5
30°	689.3
32.5°	634.8
35°	581.9
37.5°	529.0
40°	463.7
42.5°	385.9
45°	301.9
47.5°	224.1
50°	160.3
52.5°	110.5
55°	74.7
57.5°	48.2
60°	29.6
62.5°	17.1
65°	7.8
67.5°	3.1
70°	1.6
72.5°	1.6
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
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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Scaled Data Report



(END OF REPORT)