

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: P643472

Luminaire Tested: ML5615LSVWFL9FS1E - 593SNB - 1500LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643472  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-99)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL9FS1E - 593SNB - 1500LM - 3000K  
Description: ML56 RR, MILKY OPTIC, 5" SATIN NICKLE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1341.2 lumens  
Efficiency: N/A  
Efficacy: 78.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.14  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

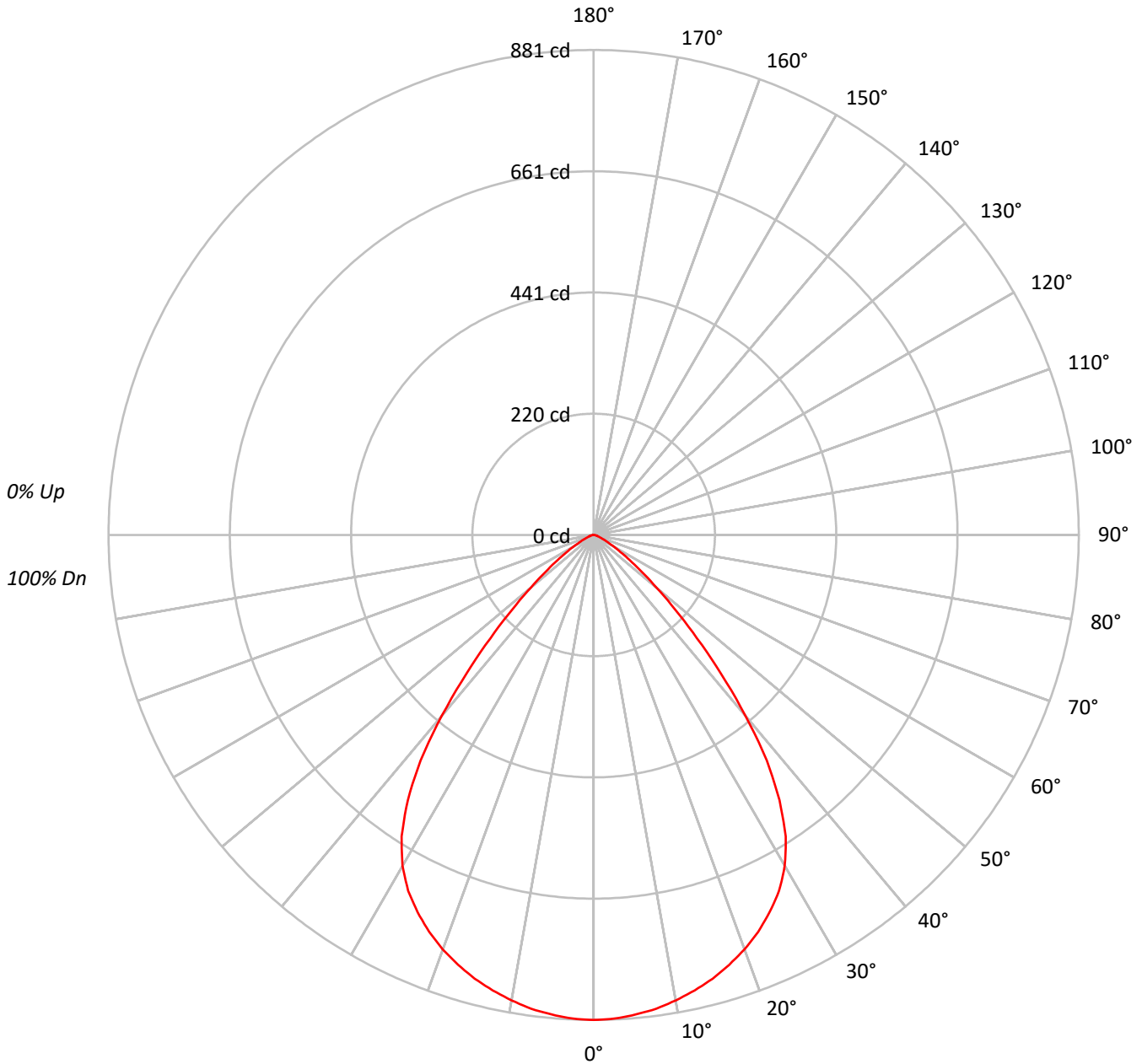
Input Watts (W): 17.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					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	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	97	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82					82			
3	99	91	85	81	97	90	84	80	87	82	79	84	81	77	82	79	76	74					74			
4	93	84	77	72	91	82	76	72	80	75	71	78	73	70	76	72	69	67					67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61					61			
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55					55			
7	76	65	58	53	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46					46			
9	68	56	50	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43					43			
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39					39			

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

	0°
0°	69555
5°	69313
10°	68832
15°	68216
20°	67298
25°	65875
30°	63260
35°	56704
40°	44157
45°	29629
50°	18262
55°	11010
60°	6568
65°	3885
70°	2216
75°	1952
80°	1455
85°	1449

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 29629 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.0	6.2
10°-20°	235.2	17.5
20°-30°	347.3	25.9
30°-40°	360.4	26.9
40°-50°	209.2	15.6
50°-60°	76.0	5.7
60°-70°	22.0	1.6
70°-80°	6.7	0.5
80°-90°	1.3	0.1
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°	665.5	49.6
0°-40°	1025.9	76.5
0°-60°	1311.1	97.8
0°-90°	1341.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1341.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	881	
5°	875	83
15°	835	235
25°	756	347
35°	588	360
45°	265	209
55°	80	76
65°	21	22
75°	6	7
85°	2	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	881.1
2.5°	879.5
5°	874.7
7.5°	868.3
10°	858.7
12.5°	847.5
15°	834.7
17.5°	818.7
20°	801.1
22.5°	780.3
25°	756.3
27.5°	729.2
30°	694.0
32.5°	649.2
35°	588.4
37.5°	516.5
40°	428.5
42.5°	342.2
45°	265.4
47.5°	199.9
50°	148.7
52.5°	110.3
55°	80.0
57.5°	57.6
60°	41.6
62.5°	28.8
65°	20.8
67.5°	14.4
70°	9.6
72.5°	8.0
75°	6.4
77.5°	4.8
80°	3.2
82.5°	1.6
85°	1.6
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)