

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: P643495

Luminaire Tested: ML5615LSVWFL9FS1E - 593TBZB - 900LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643495  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-100)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL9FS1E - 593TBZB - 900LM - 5000K  
Description: ML56 RR, MILKY OPTIC, 5" TUSCON BRONZE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

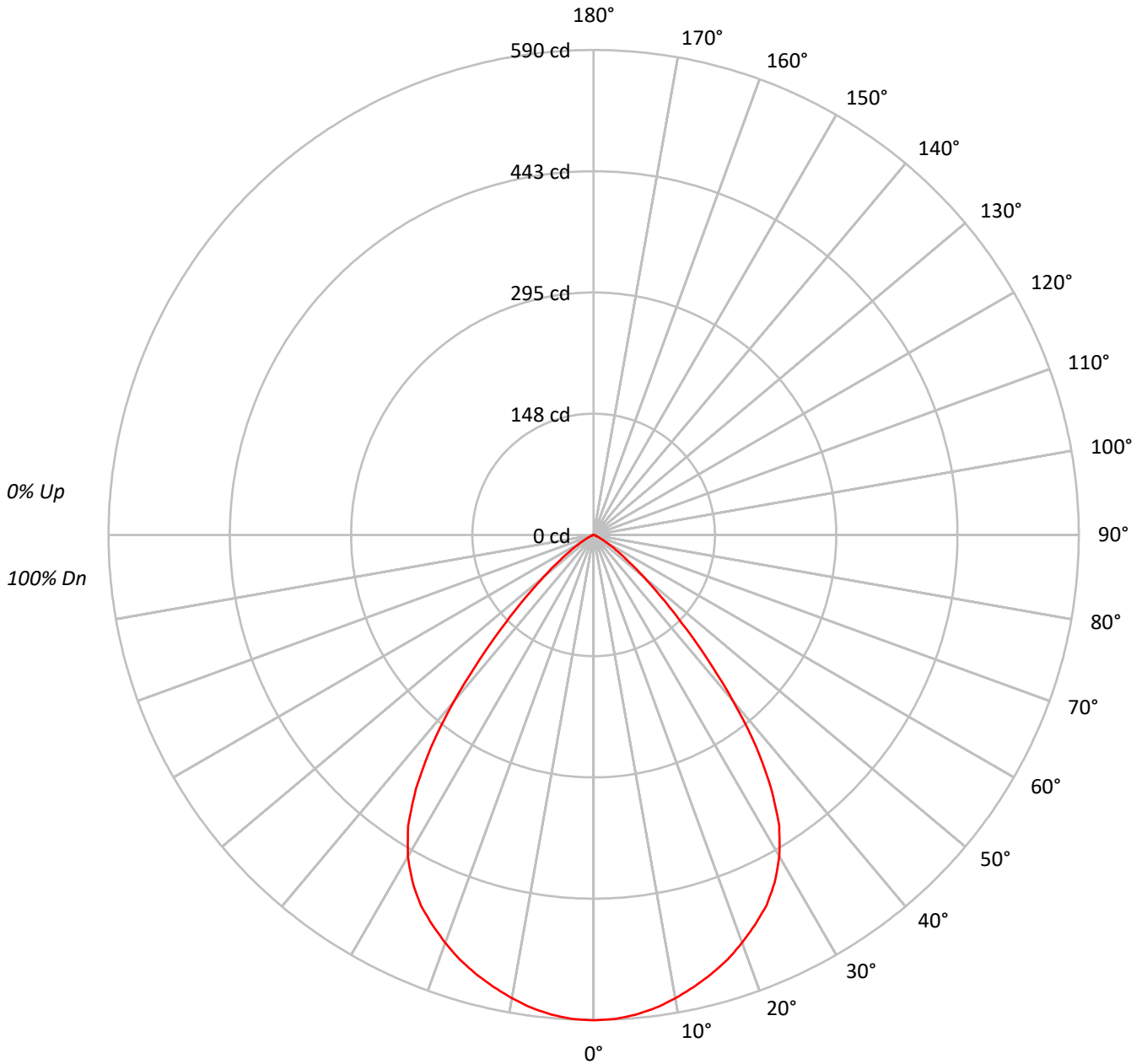
Lumens per Lamp: N/A  
Luminaire Lumens: 834.7 lumens  
Efficiency: N/A  
Efficacy: 79.5 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.12  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

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									
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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92																			
2	106	101	96	92	104	99	95	91	96	92	89	92	90	87	90	87	85	84																			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76																			
4	94	85	79	74	92	84	78	73	81	76	72	79	75	71	77	74	71	69																			
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	64	63																			
6	83	72	65	61	81	71	65	60	70	64	60	68	63	59	67	63	59	57																			
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53																			
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	53	50	48																			
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45																			
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41																			

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

	0°
0°	46615
5°	46428
10°	45875
15°	45186
20°	44347
25°	43307
30°	41174
35°	36293
40°	27205
45°	16891
50°	9641
55°	5161
60°	2510
65°	1065
70°	531
75°	336
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16891 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.5	6.6
10°-20°	155.8	18.7
20°-30°	227.7	27.3
30°-40°	229.9	27.5
40°-50°	121.3	14.5
50°-60°	36.3	4.4
60°-70°	7.0	0.8
70°-80°	1.2	0.1
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°	439.1	52.6
0°-40°	669.0	80.1
0°-60°	826.6	99.0
0°-90°	834.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	834.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	590	
5°	586	55
15°	553	156
25°	497	228
35°	377	230
45°	151	121
55°	38	36
65°	6	7
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	590.5
2.5°	589.4
5°	585.9
7.5°	580.3
10°	572.3
12.5°	563.2
15°	552.9
17.5°	541.6
20°	527.9
22.5°	513.1
25°	497.2
27.5°	476.7
30°	451.7
32.5°	419.8
35°	376.6
37.5°	324.3
40°	264.0
42.5°	203.7
45°	151.3
47.5°	110.4
50°	78.5
52.5°	54.6
55°	37.5
57.5°	25.0
60°	15.9
62.5°	10.2
65°	5.7
67.5°	3.4
70°	2.3
72.5°	1.1
75°	1.1
77.5°	1.1
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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(END OF REPORT)