

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: P643488

Luminaire Tested: ML5615LSVWFL9FS1E - 593TBZB - 1500LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643488  
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 - 1500LM - 3500K  
Description: ML56 RR, MILKY OPTIC, 5" TUSCON BRONZE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1205.8 lumens  
Efficiency: N/A  
Efficacy: 70.5 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

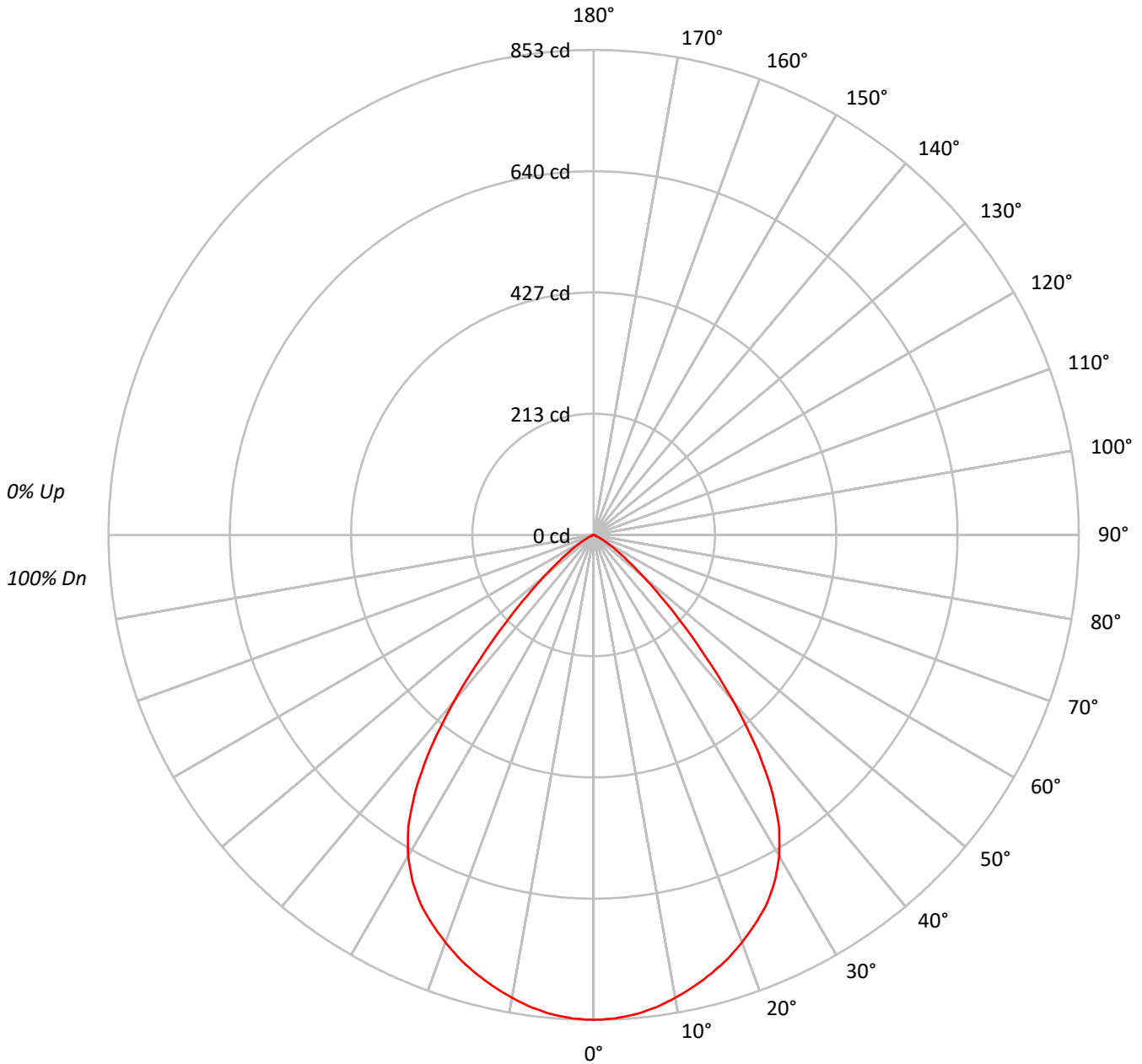
Input Watts (W): 17.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20				
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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92			92
2	106	101	96	92	104	99	95	91	96	92	89	92	90	87	90	87	85	84			84
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			76
4	94	85	79	74	92	84	78	73	81	76	72	79	75	71	77	74	71	69			69
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	64	63			63
6	83	72	65	61	81	71	65	60	70	64	60	68	63	59	67	63	59	57			57
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53			53
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	53	50	48			48
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45			45
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41			41

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

	0°
0°	67337
5°	67071
10°	66267
15°	65282
20°	64064
25°	62556
30°	59477
35°	52425
40°	39293
45°	24404
50°	13927
55°	7460
60°	3631
65°	1532
70°	762
75°	488
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 24404 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.2	6.6
10°-20°	225.1	18.7
20°-30°	329.0	27.3
30°-40°	332.1	27.5
40°-50°	175.2	14.5
50°-60°	52.5	4.4
60°-70°	10.1	0.8
70°-80°	1.7	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°	634.3	52.6
0°-40°	966.4	80.1
0°-60°	1194.1	99.0
0°-90°	1205.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1205.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	853	
5°	846	80
15°	799	225
25°	718	329
35°	544	332
45°	219	175
55°	54	53
65°	8	10
75°	2	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	853.0
2.5°	851.4
5°	846.4
7.5°	838.2
10°	826.7
12.5°	813.6
15°	798.8
17.5°	782.3
20°	762.6
22.5°	741.3
25°	718.2
27.5°	688.7
30°	652.5
32.5°	606.5
35°	544.0
37.5°	468.4
40°	381.3
42.5°	294.2
45°	218.6
47.5°	159.4
50°	113.4
52.5°	78.9
55°	54.2
57.5°	36.2
60°	23.0
62.5°	14.8
65°	8.2
67.5°	4.9
70°	3.3
72.5°	1.6
75°	1.6
77.5°	1.6
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)