

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: P643534

Luminaire Tested: ML5615LSVWFL9FS1E - 594TBZB - 1500LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643534  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-103)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL9FS1E - 594TBZB - 1500LM - 4000K  
Description: ML56 RR, MILKY OPTIC, 5" TUSCON BRONZE GIMBAL TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1884.4 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.27  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

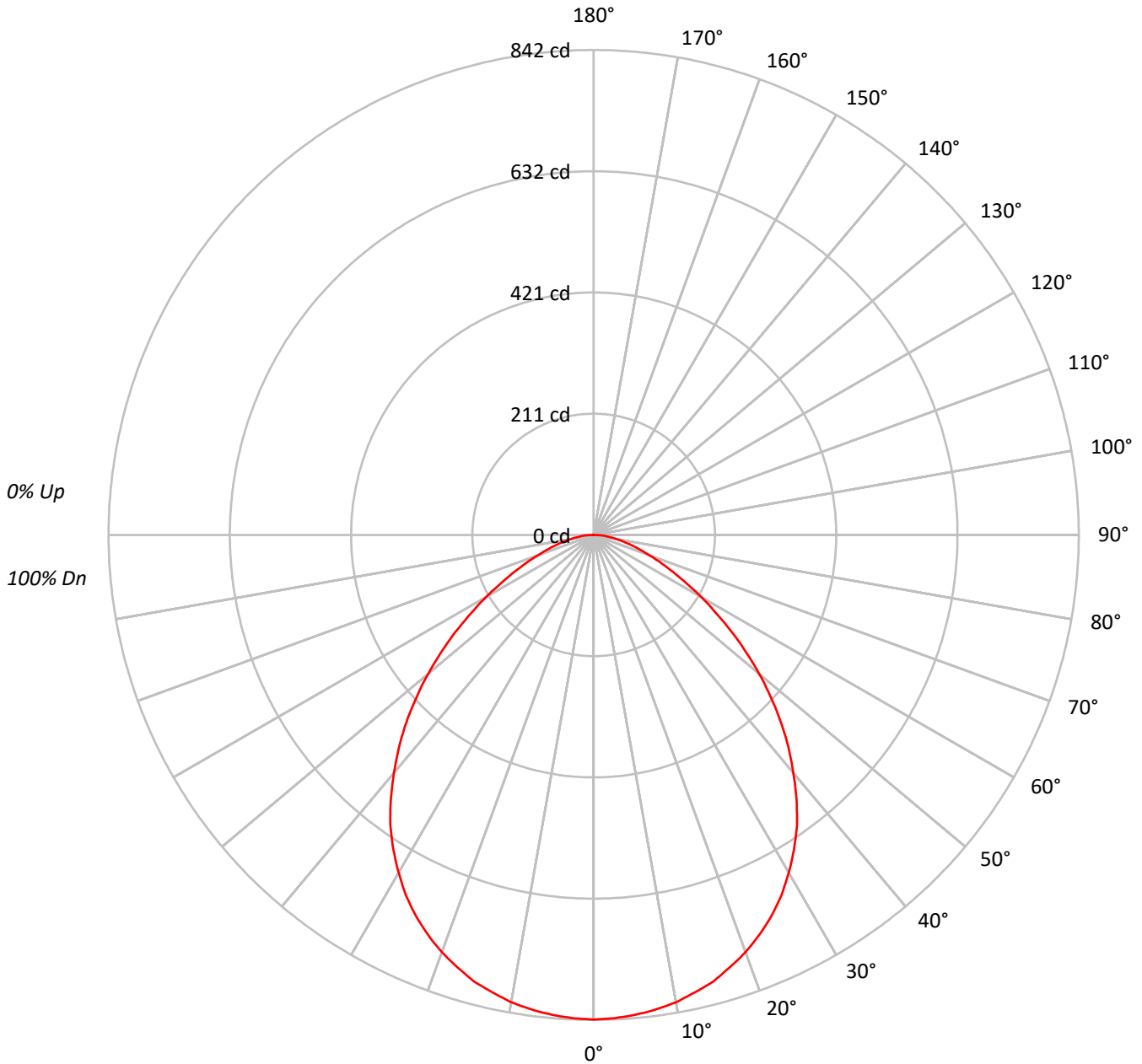
Input Watts (W): 17.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87			87
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	82	79	76	74			74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64			64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56			56
5	79	68	59	53	77	67	59	53	64	58	52	63	57	52	61	55	51	49			49
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44			44
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39			39
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35			35
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32			32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29			29

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

	0°
0°	66437
5°	66270
10°	66043
15°	65601
20°	64761
25°	63602
30°	61729
35°	59296
40°	55575
45°	51321
50°	46029
55°	40146
60°	34055
65°	28411
70°	23658
75°	20496
80°	17684
85°	17571

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 51321 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.4	4.2
10°-20°	226.0	12.0
20°-30°	335.6	17.8
30°-40°	382.9	20.3
40°-50°	353.4	18.8
50°-60°	261.1	13.9
60°-70°	152.4	8.1
70°-80°	71.8	3.8
80°-90°	21.7	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°	641.1	34.0
0°-40°	1024.0	54.3
0°-60°	1638.5	87.0
0°-90°	1884.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1884.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	842	
5°	836	79
15°	803	226
25°	730	336
35°	615	383
45°	460	353
55°	292	261
65°	152	152
75°	67	72
85°	19	22
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	841.6
2.5°	839.8
5°	836.3
7.5°	831.0
10°	823.9
12.5°	813.3
15°	802.7
17.5°	786.8
20°	770.9
22.5°	751.4
25°	730.2
27.5°	705.5
30°	677.2
32.5°	647.1
35°	615.3
37.5°	578.2
40°	539.3
42.5°	500.4
45°	459.7
47.5°	417.3
50°	374.8
52.5°	332.4
55°	291.7
57.5°	251.1
60°	215.7
62.5°	180.3
65°	152.1
67.5°	125.5
70°	102.5
72.5°	83.1
75°	67.2
77.5°	51.3
80°	38.9
82.5°	28.3
85°	19.4
87.5°	12.4
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)