

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P643698

Luminaire Tested: ML5615LSVWFL9FS1E - 694TBZB - 1500LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643698  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-114)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL9FS1E - 694TBZB - 1500LM - 3500K  
Description: ML56 RR, MILKY OPTIC, 6" TUSCON BRONZE GIMBAL TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1738.2 lumens  
Efficiency: N/A  
Efficacy: 101.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.27  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

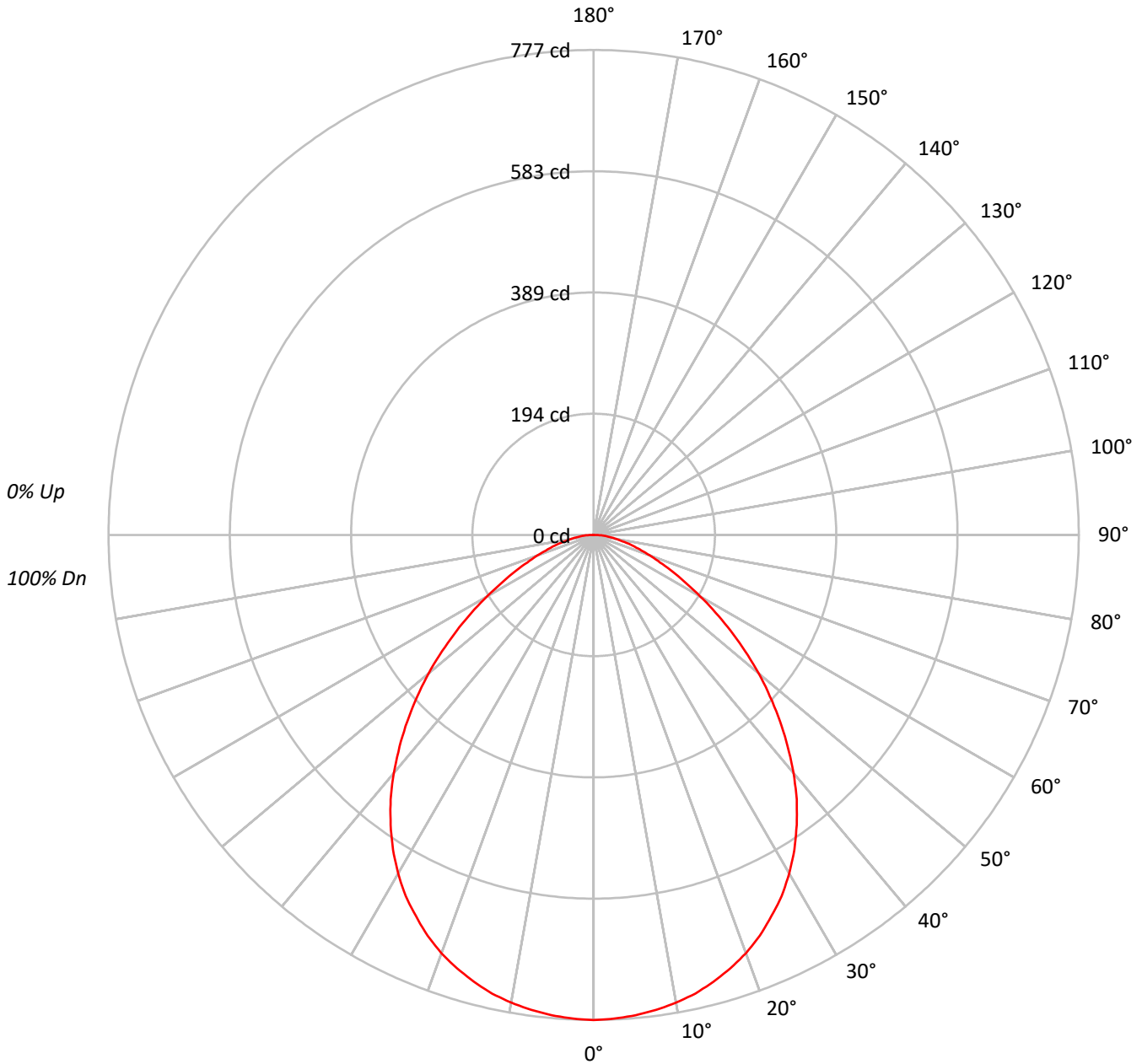
Input Watts (W): 17.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
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	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87																			
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	82	79	76	74																			
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64																			
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56																			
5	80	68	59	53	78	67	59	53	64	58	52	63	57	52	61	56	51	49																			
6	74	61	53	47	72	60	53	47	59	52	46	57	51	46	56	50	46	44																			
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39																			
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35																			
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32																			
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29																			

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

	0°
0°	42612
5°	42505
10°	42356
15°	42066
20°	41607
25°	40756
30°	39633
35°	37945
40°	35631
45°	32740
50°	29432
55°	25605
60°	21621
65°	18121
70°	15275
75°	13217
80°	11428
85°	11385

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 32740 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.4	4.2
10°-20°	209.0	12.0
20°-30°	310.2	17.8
30°-40°	353.6	20.3
40°-50°	325.0	18.7
50°-60°	240.2	13.8
60°-70°	140.0	8.1
70°-80°	66.7	3.8
80°-90°	20.1	1.2
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°	592.6	34.1
0°-40°	946.1	54.4
0°-60°	1511.3	86.9
0°-90°	1738.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1738.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	777	
5°	772	73
15°	741	209
25°	674	310
35°	567	354
45°	422	325
55°	268	240
65°	140	140
75°	62	67
85°	18	20
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	777.3
2.5°	775.7
5°	772.4
7.5°	767.5
10°	760.9
12.5°	752.7
15°	741.2
17.5°	728.0
20°	713.2
22.5°	695.1
25°	673.8
27.5°	652.4
30°	626.1
32.5°	598.2
35°	567.0
37.5°	534.1
40°	497.9
42.5°	460.1
45°	422.3
47.5°	382.9
50°	345.1
52.5°	305.7
55°	267.9
57.5°	231.7
60°	197.2
62.5°	166.0
65°	139.7
67.5°	115.0
70°	95.3
72.5°	77.2
75°	62.4
77.5°	47.7
80°	36.2
82.5°	26.3
85°	18.1
87.5°	11.5
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)