

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: P643347

Luminaire Tested: ML5615LSVWFL759FS1E - 694TBZB - 1200LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643347  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-91)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL759FS1E - 694TBZB - 1200LM - 3000K  
Description: ML56 RR, 75D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1428.3 lumens  
Efficiency: N/A  
Efficacy: 106.6 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

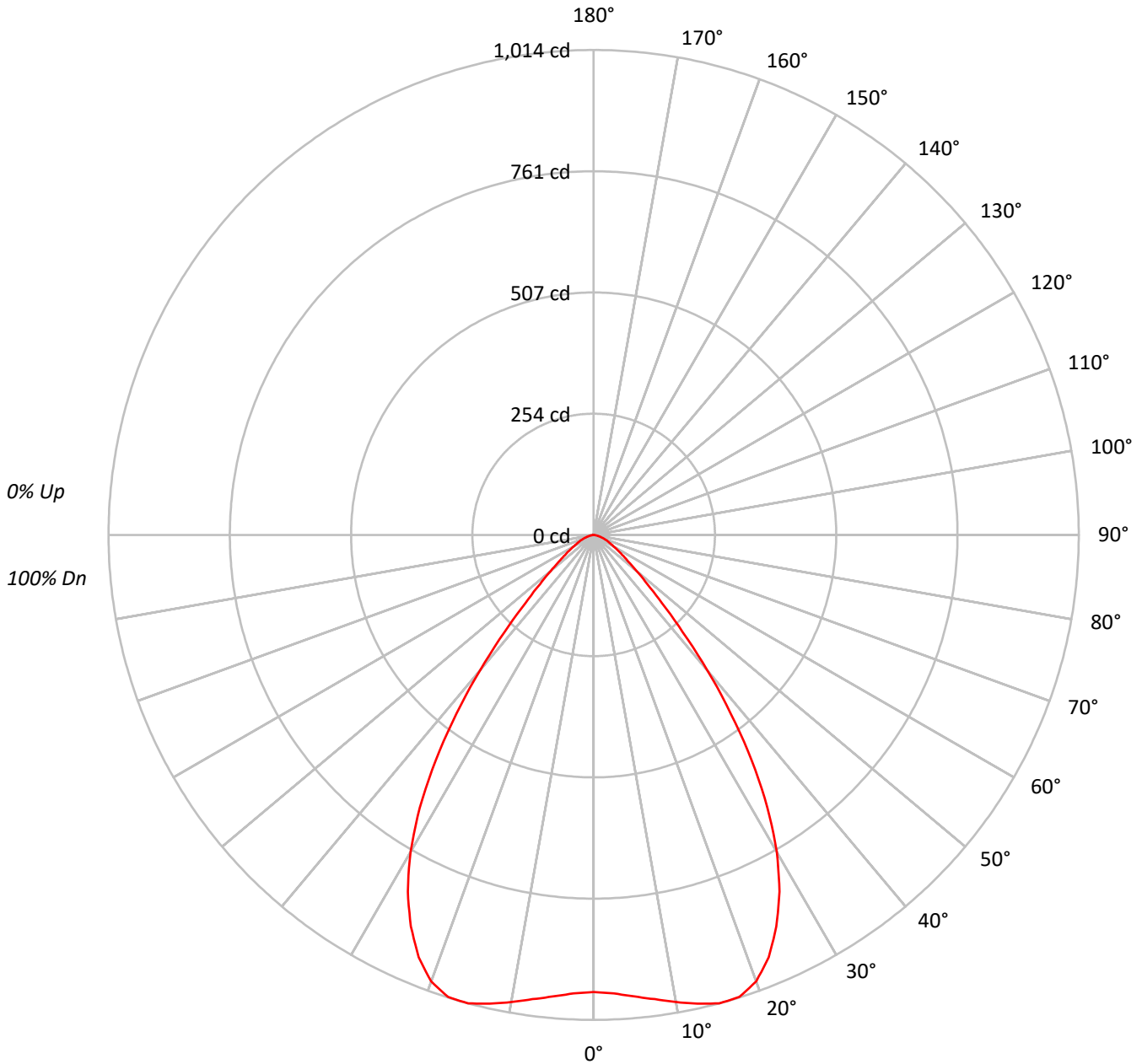
Input Watts (W): 13.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91																			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83																			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75																			
4	93	84	78	73	91	83	77	73	81	76	72	79	74	71	77	73	70	68																			
5	88	78	71	66	86	77	71	66	75	69	65	73	68	65	72	67	64	62																			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57																			
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	52																			
8	73	62	55	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48																			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45																			
10	65	54	48	44	64	54	48	43	53	47	43	52	47	43	51	47	43	42																			

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

	0°
0°	52386
5°	53302
10°	55221
15°	57554
20°	57948
25°	54656
30°	48476
35°	38548
40°	26421
45°	15622
50°	9978
55°	6958
60°	5274
65°	4384
70°	3542
75°	2754
80°	1642
85°	818

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15622 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.2	6.5
10°-20°	285.2	20.0
20°-30°	411.2	28.8
30°-40°	354.8	24.8
40°-50°	166.2	11.6
50°-60°	68.1	4.8
60°-70°	34.0	2.4
70°-80°	13.9	1.0
80°-90°	1.8	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°	789.6	55.3
0°-40°	1144.3	80.1
0°-60°	1378.7	96.5
0°-90°	1428.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1428.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	956	
5°	969	93
15°	1014	285
25°	904	411
35°	576	355
45°	202	166
55°	73	68
65°	34	34
75°	13	14
85°	1	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	955.6
2.5°	959.5
5°	968.6
7.5°	979.0
10°	992.0
12.5°	1003.7
15°	1014.1
17.5°	1012.8
20°	993.3
22.5°	955.6
25°	903.6
27.5°	841.2
30°	765.8
32.5°	676.1
35°	576.0
37.5°	470.7
40°	369.2
42.5°	275.6
45°	201.5
47.5°	152.1
50°	117.0
52.5°	91.0
55°	72.8
57.5°	59.8
60°	48.1
62.5°	40.3
65°	33.8
67.5°	28.6
70°	22.1
72.5°	16.9
75°	13.0
77.5°	9.1
80°	5.2
82.5°	2.6
85°	1.3
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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Scaled Data Report



(END OF REPORT)