

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: P643327

Luminaire Tested: ML5615LSVWFL759FS1E - 693TBZB - 900LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643327  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-89)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL759FS1E - 693TBZB - 900LM - 3000K  
Description: ML56 RR, 75D TIR OPTIC, 6" TUSCON BRONZE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1088.2 lumens  
Efficiency: N/A  
Efficacy: 103.6 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

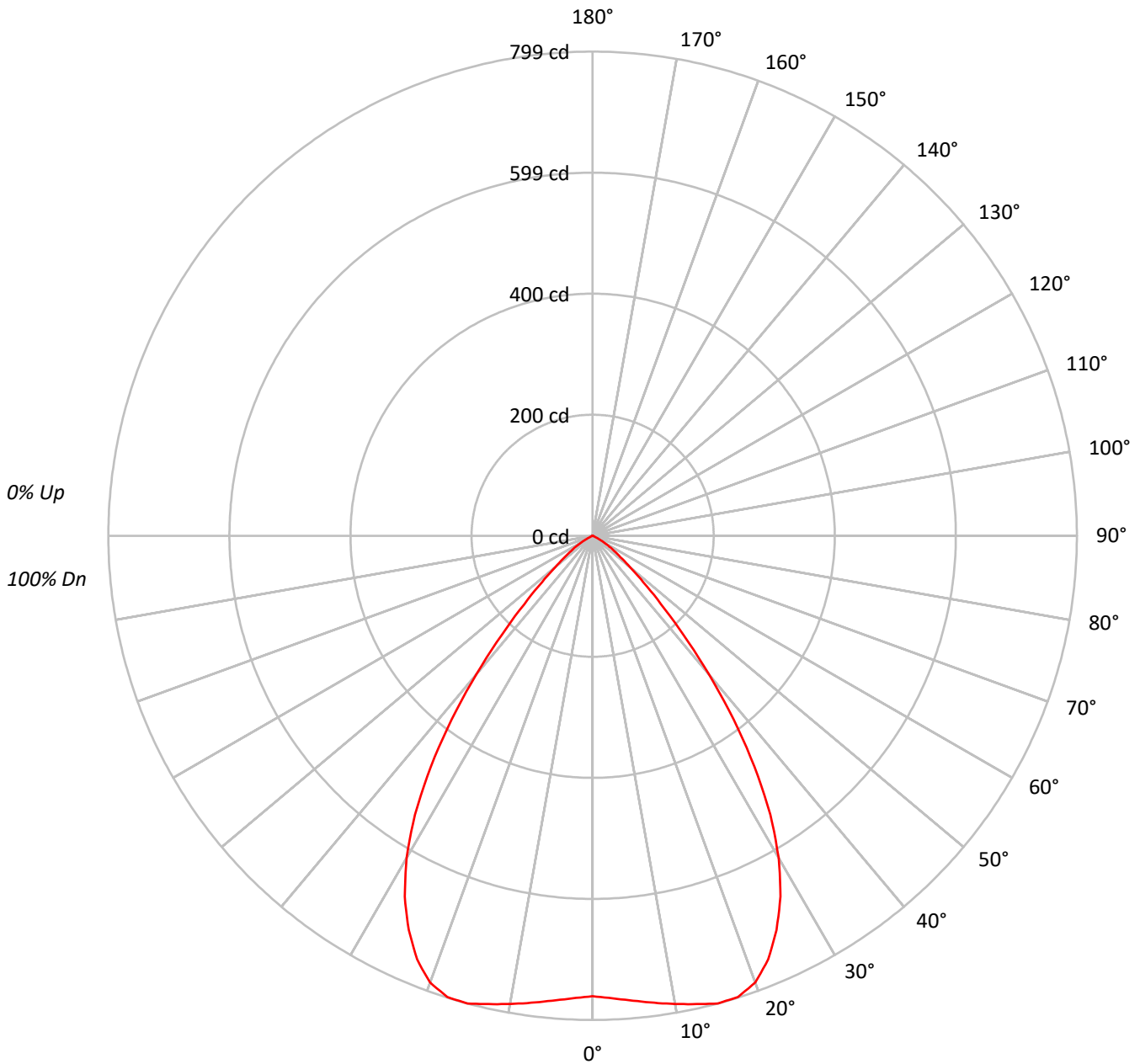
Input Watts (W): 10.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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				100															
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92				92															
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84				84															
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77				77															
4	94	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	70				70															
5	89	80	73	68	87	79	73	68	77	71	67	75	70	67	73	69	66	65				65															
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59				59															
7	79	69	62	57	77	68	62	57	67	61	57	65	60	56	64	60	56	55				55															
8	74	64	57	53	73	63	57	53	62	56	52	61	56	52	60	55	52	50				50															
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	52	48	47				47															
10	67	56	49	45	66	55	49	45	55	49	45	54	49	45	53	48	45	43				43															

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

	0°
0°	41652
5°	42378
10°	43670
15°	45341
20°	45766
25°	43406
30°	38841
35°	31139
40°	21290
45°	12373
50°	6848
55°	4129
60°	2149
65°	532
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12373 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.0	6.8
10°-20°	224.9	20.7
20°-30°	326.8	30.0
30°-40°	286.4	26.3
40°-50°	129.9	11.9
50°-60°	40.3	3.7
60°-70°	5.9	0.5
70°-80°	0.0	0.0
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°	625.7	57.5
0°-40°	912.1	83.8
0°-60°	1082.3	99.5
0°-90°	1088.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1088.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	760	
5°	770	74
15°	799	225
25°	718	327
35°	465	286
45°	160	130
55°	43	40
65°	4	6
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	759.8
2.5°	763.9
5°	770.1
7.5°	777.3
10°	784.5
12.5°	791.7
15°	798.9
17.5°	797.9
20°	784.5
22.5°	756.7
25°	717.6
27.5°	671.2
30°	613.6
32.5°	545.6
35°	465.3
37.5°	382.0
40°	297.5
42.5°	221.3
45°	159.6
47.5°	113.2
50°	80.3
52.5°	57.7
55°	43.2
57.5°	30.9
60°	19.6
62.5°	9.3
65°	4.1
67.5°	1.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
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)