

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: P643355

Luminaire Tested: ML5615LSVWFL759FS1E - 694TBZB - 1500LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643355  
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 - 1500LM - 5000K  
Description: ML56 RR, 75D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

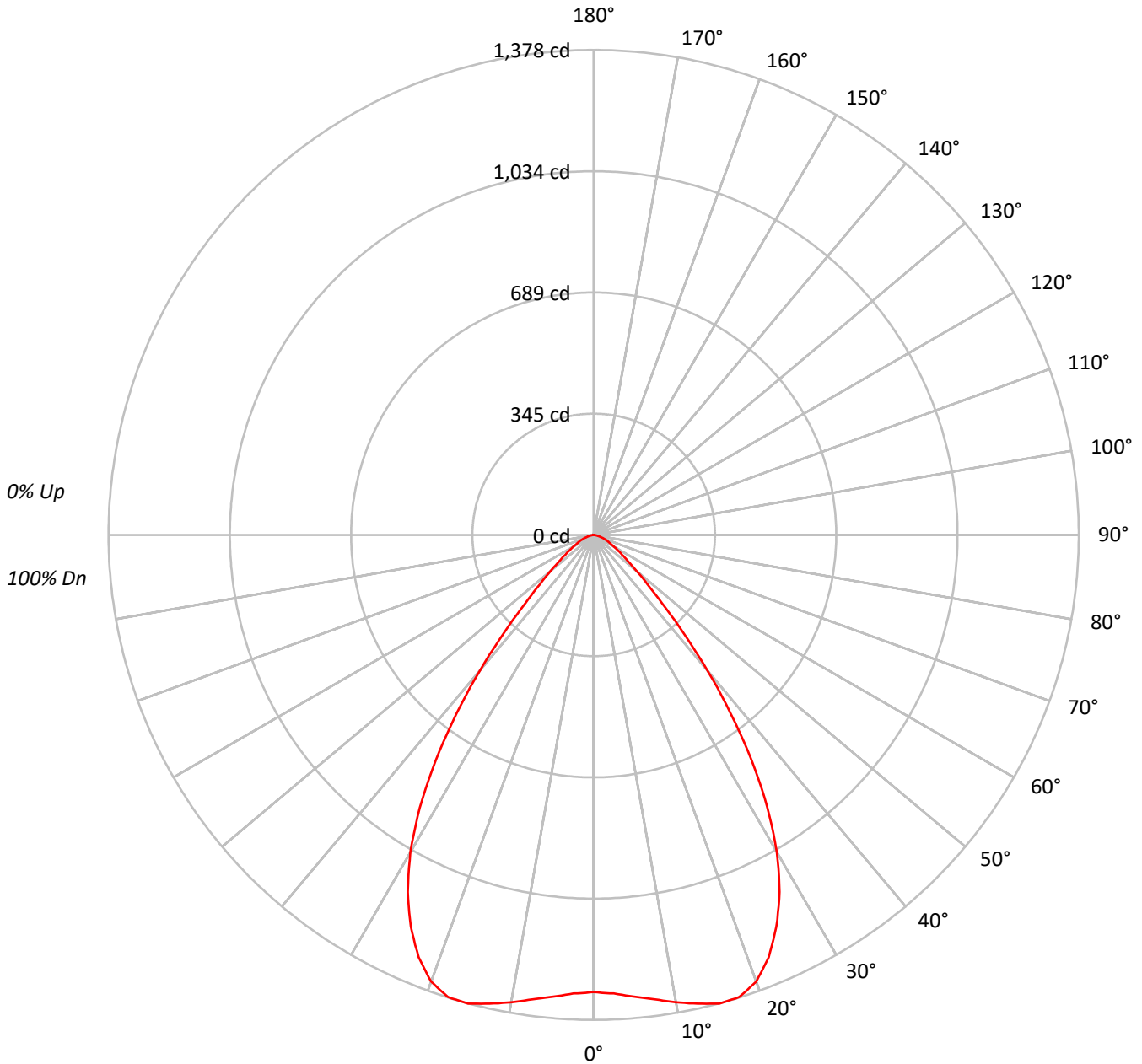
Lumens per Lamp: N/A  
Luminaire Lumens: 1941.7 lumens  
Efficiency: N/A  
Efficacy: 113.5 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	71211
5°	72457
10°	75065
15°	78235
20°	78774
25°	74297
30°	65896
35°	52394
40°	35917
45°	21235
50°	13569
55°	9462
60°	7170
65°	5967
70°	4809
75°	3749
80°	2241
85°	1132

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 21235 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.7	6.5
10°-20°	387.7	20.0
20°-30°	558.9	28.8
30°-40°	482.2	24.8
40°-50°	226.0	11.6
50°-60°	92.6	4.8
60°-70°	46.3	2.4
70°-80°	18.9	1.0
80°-90°	2.4	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°	1073.3	55.3
0°-40°	1555.6	80.1
0°-60°	1874.1	96.5
0°-90°	1941.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1941.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1299	
5°	1317	127
15°	1378	388
25°	1228	559
35°	783	482
45°	274	226
55°	99	93
65°	46	46
75°	18	19
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1299.0
2.5°	1304.3
5°	1316.7
7.5°	1330.8
10°	1348.5
12.5°	1364.4
15°	1378.5
17.5°	1376.8
20°	1350.3
22.5°	1299.0
25°	1228.3
27.5°	1143.5
30°	1041.0
32.5°	919.0
35°	782.9
37.5°	639.8
40°	501.9
42.5°	374.7
45°	273.9
47.5°	206.8
50°	159.1
52.5°	123.7
55°	99.0
57.5°	81.3
60°	65.4
62.5°	54.8
65°	46.0
67.5°	38.9
70°	30.0
72.5°	23.0
75°	17.7
77.5°	12.4
80°	7.1
82.5°	3.5
85°	1.8
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)