

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: P643361

Luminaire Tested: ML5615LSVWFL759FS1E - 694WB - 1200LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643361  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-90)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL759FS1E - 694WB - 1200LM - 2700K  
Description: ML56 RR, 75D TIR OPTIC, 6" WHITE GIMBAL TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1396.2 lumens  
Efficiency: N/A  
Efficacy: 104.2 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

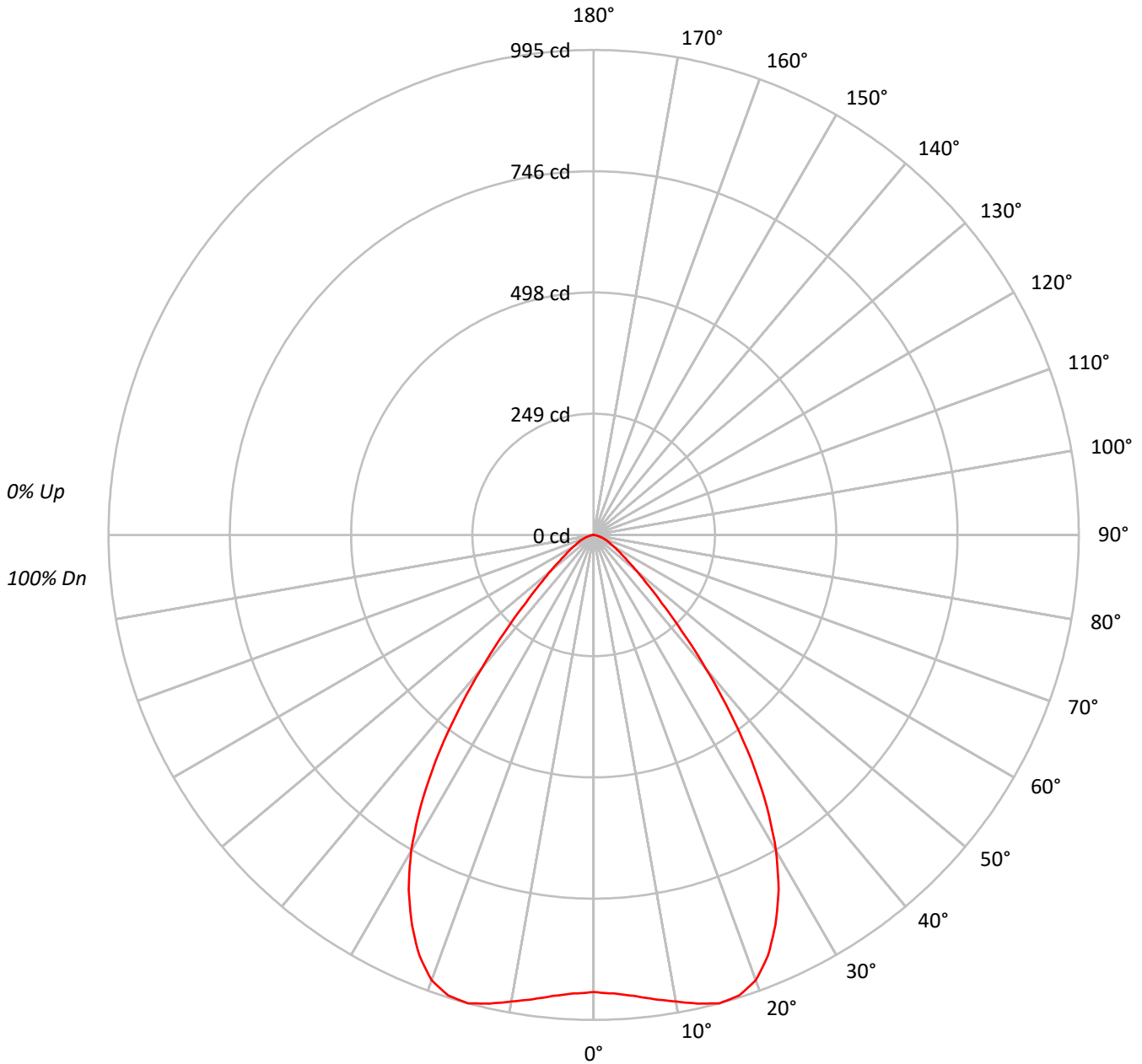
Input Watts (W): 13.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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	53																			
8	73	62	56	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	47	55	50	46	45																			
10	65	54	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42																			

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

	0°
0°	51421
5°	52245
10°	54118
15°	56465
20°	56717
25°	53374
30°	47374
35°	37731
40°	25691
45°	15288
50°	9808
55°	6767
60°	5263
65°	4268
70°	3446
75°	2669
80°	1610
85°	818

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15288 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.4	6.5
10°-20°	279.5	20.0
20°-30°	401.8	28.8
30°-40°	346.6	24.8
40°-50°	162.0	11.6
50°-60°	66.5	4.8
60°-70°	33.3	2.4
70°-80°	13.5	1.0
80°-90°	1.7	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°	772.7	55.3
0°-40°	1119.3	80.2
0°-60°	1347.8	96.5
0°-90°	1396.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1396.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	938	
5°	949	91
15°	995	280
25°	882	402
35°	564	347
45°	197	162
55°	71	67
65°	33	33
75°	13	13
85°	1	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	938.0
2.5°	941.8
5°	949.4
7.5°	960.8
10°	972.2
12.5°	984.8
15°	994.9
17.5°	991.1
20°	972.2
22.5°	934.3
25°	882.4
27.5°	821.7
30°	748.4
32.5°	661.2
35°	563.8
37.5°	458.9
40°	359.0
42.5°	268.0
45°	197.2
47.5°	147.9
50°	115.0
52.5°	88.5
55°	70.8
57.5°	58.2
60°	48.0
62.5°	39.2
65°	32.9
67.5°	27.8
70°	21.5
72.5°	16.4
75°	12.6
77.5°	8.8
80°	5.1
82.5°	2.5
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)