

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: P643156

Luminaire Tested: ML5615LSVWFL759FS1E - 593WB - 1500LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643156  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-74)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL759FS1E - 593WB - 1500LM - 2700K  
Description: ML56 RR, 75D TIR OPTIC, 5" WHITE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1673.1 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

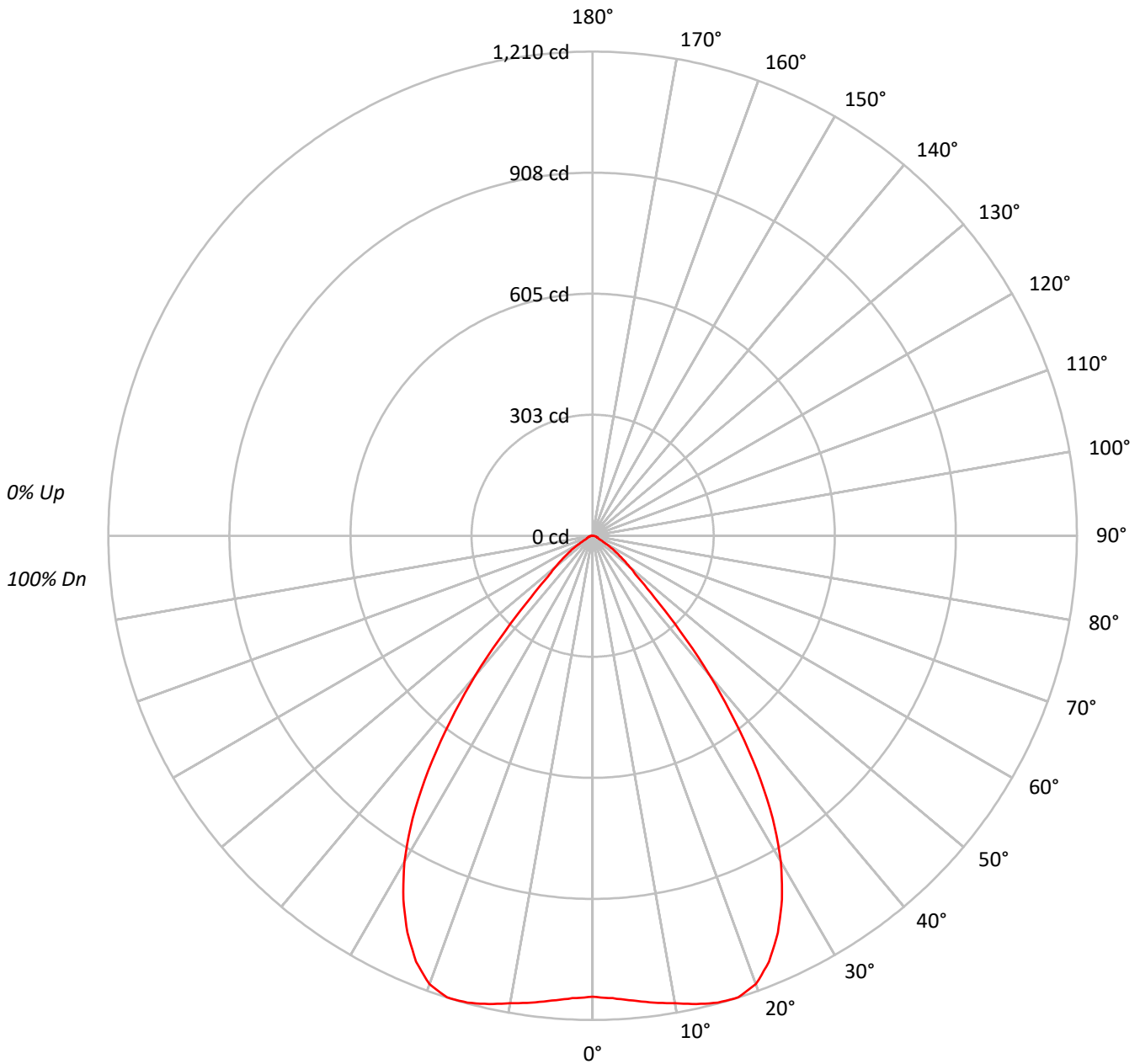
Input Watts (W): 17.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92																			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85	84																			
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76																			
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70																			
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64																			
6	83	73	66	62	82	72	66	61	71	65	61	69	64	61	68	64	60	59																			
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	55	54																			
8	74	63	57	52	73	63	56	52	62	56	52	61	55	51	60	55	51	50																			
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	46																			
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43																			

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

	0°
0°	90948
5°	92405
10°	95092
15°	98733
20°	100179
25°	95341
30°	85739
35°	69068
40°	46939
45°	24304
50°	14897
55°	9840
60°	4910
65°	2895
70°	2862
75°	2837
80°	2819
85°	2808

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 24304 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.0	6.7
10°-20°	340.8	20.4
20°-30°	498.5	29.8
30°-40°	439.6	26.3
40°-50°	186.2	11.1
50°-60°	64.8	3.9
60°-70°	18.0	1.1
70°-80°	9.8	0.6
80°-90°	3.4	0.2
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°	951.3	56.9
0°-40°	1390.8	83.1
0°-60°	1641.8	98.1
0°-90°	1673.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1673.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1152	
5°	1166	112
15°	1208	341
25°	1095	499
35°	717	440
45°	218	186
55°	72	65
65°	16	18
75°	9	10
85°	3	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1152.1
2.5°	1156.8
5°	1166.1
7.5°	1177.0
10°	1186.3
12.5°	1198.7
15°	1208.1
17.5°	1209.6
20°	1192.5
22.5°	1152.1
25°	1094.6
27.5°	1024.6
30°	940.6
32.5°	838.0
35°	716.7
37.5°	584.6
40°	455.5
42.5°	323.4
45°	217.7
47.5°	150.8
50°	121.3
52.5°	93.3
55°	71.5
57.5°	51.3
60°	31.1
62.5°	21.8
65°	15.5
67.5°	14.0
70°	12.4
72.5°	10.9
75°	9.3
77.5°	7.8
80°	6.2
82.5°	4.7
85°	3.1
87.5°	1.6
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)