

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: P643051

Luminaire Tested: ML5615LSVWFL759FS1E - 591WB - 1500LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643051  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-70)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL759FS1E - 591WB - 1500LM - 2700K  
Description: ML56 RR, 75D TIR OPTIC, 5" DEADFRONT TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1691.8 lumens  
Efficiency: N/A  
Efficacy: 98.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

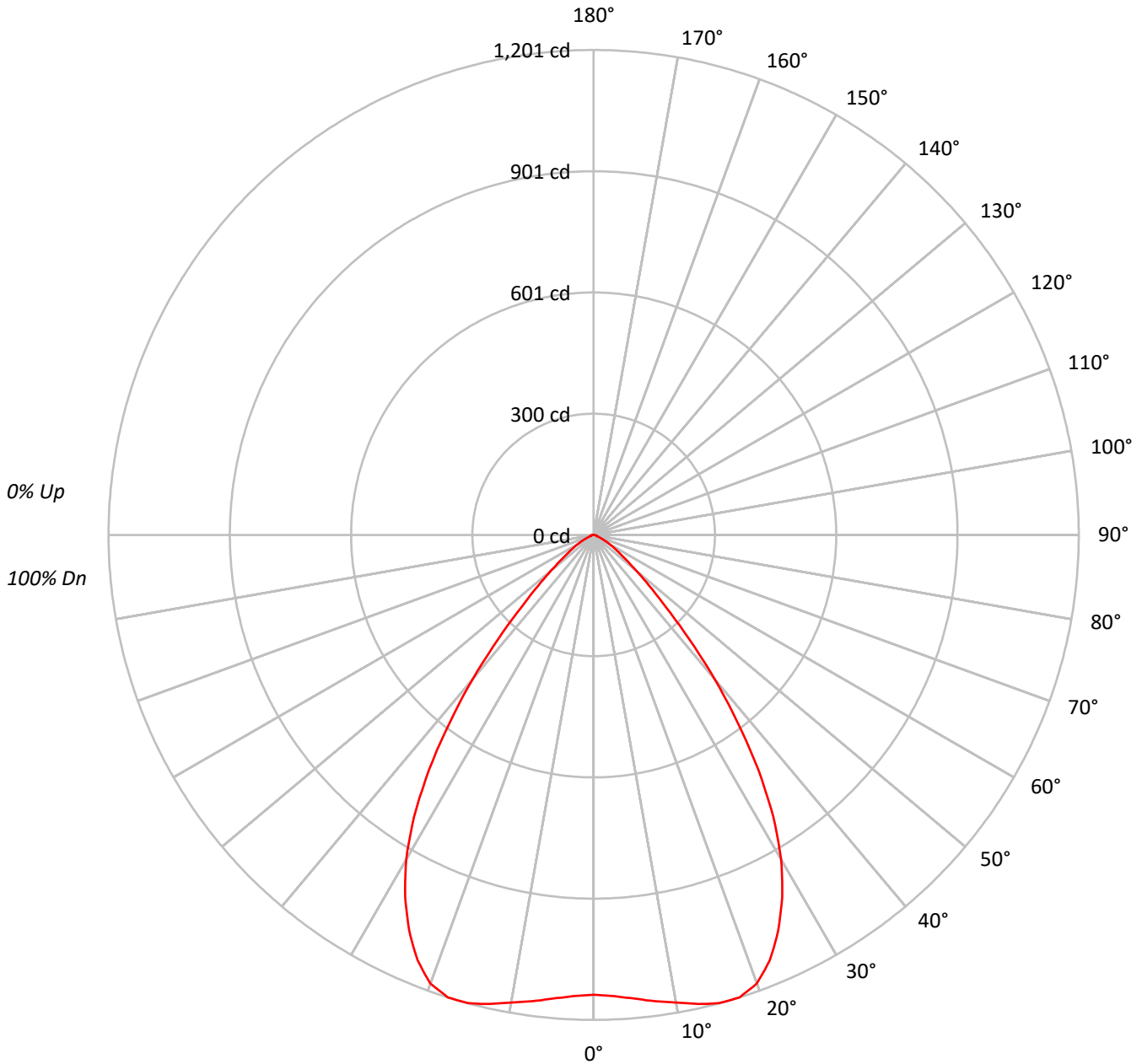
Input Watts (W): 17.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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	99	98	96	96	95	94	92			
2	106	101	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			
4	94	85	79	74	92	84	78	73	82	77	73	80	75	72	78	74	71	69			
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63			
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	60	58			
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53			
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49			
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45			
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42			

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

	0°
0°	62413
5°	63422
10°	65452
15°	68145
20°	68956
25°	65381
30°	58775
35°	47569
40°	33277
45°	19537
50°	11676
55°	7283
60°	4945
65°	2828
70°	1491
75°	1313
80°	1484
85°	1950

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19537 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.8	6.5
10°-20°	338.2	20.0
20°-30°	492.6	29.1
30°-40°	437.1	25.8
40°-50°	206.9	12.2
50°-60°	72.3	4.3
60°-70°	23.5	1.4
70°-80°	7.2	0.4
80°-90°	3.2	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°	941.6	55.7
0°-40°	1378.7	81.5
0°-60°	1657.9	98.0
0°-90°	1691.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1691.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1138	
5°	1152	111
15°	1201	338
25°	1081	493
35°	711	437
45°	252	207
55°	76	72
65°	22	24
75°	6	7
85°	3	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1138.5
2.5°	1143.1
5°	1152.5
7.5°	1164.9
10°	1175.8
12.5°	1189.8
15°	1200.7
17.5°	1200.7
20°	1182.0
22.5°	1140.0
25°	1080.9
27.5°	1010.9
30°	928.5
32.5°	827.4
35°	710.8
37.5°	584.8
40°	465.0
42.5°	348.4
45°	252.0
47.5°	185.1
50°	136.9
52.5°	99.5
55°	76.2
57.5°	59.1
60°	45.1
62.5°	32.7
65°	21.8
67.5°	14.0
70°	9.3
72.5°	7.8
75°	6.2
77.5°	6.2
80°	4.7
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)