

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: P643381

Luminaire Tested: ML5615LSVWFL759FS1E - 696WB - 1500LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643381  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-92)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL759FS1E - 696WB - 1500LM - 2700K  
Description: ML56 RR, 75D TIR OPTIC, 6" SHALLOW WHITE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1705.8 lumens  
Efficiency: N/A  
Efficacy: 99.8 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

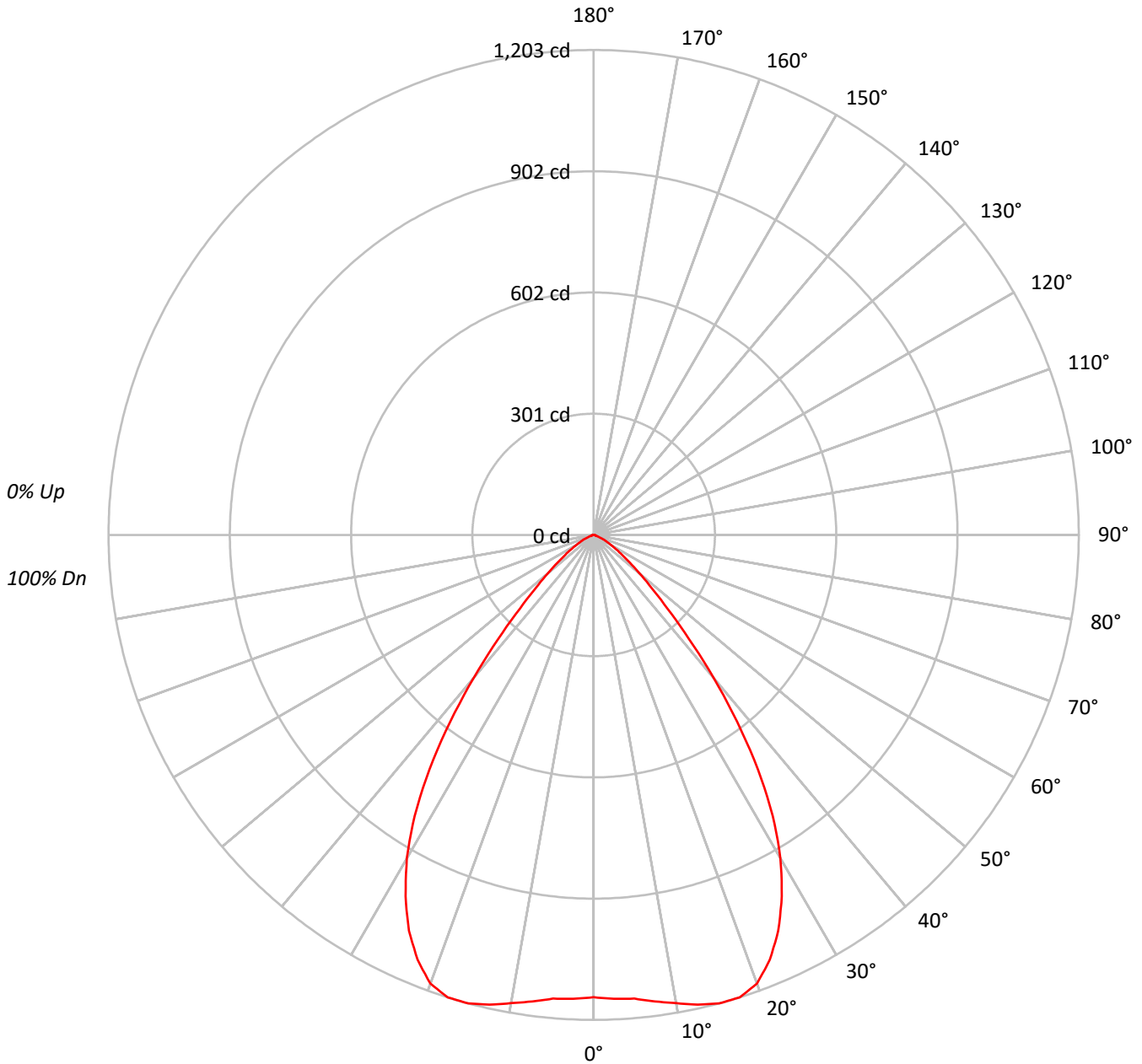
Input Watts (W): 17.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	99	98	96	96	95	94	92																			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	90	87	85	83																			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	77	76																			
4	94	85	79	74	92	84	78	73	81	76	72	79	75	71	77	74	71	69																			
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63																			
6	83	73	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58																			
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	55	53																			
8	73	63	56	51	72	62	56	51	61	55	51	60	54	51	59	54	50	49																			
9	69	58	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45																			
10	66	55	48	44	64	54	48	44	53	48	44	52	47	43	52	47	43	42																			

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

	0°
0°	62873
5°	63543
10°	65658
15°	68269
20°	69084
25°	65520
30°	58629
35°	47529
40°	33033
45°	20002
50°	12725
55°	8172
60°	5449
65°	3632
70°	1747
75°	996
80°	979
85°	1006

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20002 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.1	6.5
10°-20°	339.0	19.9
20°-30°	492.8	28.9
30°-40°	436.3	25.6
40°-50°	210.8	12.4
50°-60°	80.3	4.7
60°-70°	27.7	1.6
70°-80°	5.5	0.3
80°-90°	2.1	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°	942.9	55.3
0°-40°	1379.3	80.9
0°-60°	1670.4	97.9
0°-90°	1705.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1705.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1147	
5°	1155	111
15°	1203	339
25°	1083	493
35°	710	436
45°	258	211
55°	86	80
65°	28	28
75°	5	6
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1146.9
2.5°	1151.6
5°	1154.7
7.5°	1167.1
10°	1179.5
12.5°	1193.5
15°	1202.9
17.5°	1202.9
20°	1184.2
22.5°	1140.7
25°	1083.2
27.5°	1010.2
30°	926.2
32.5°	826.8
35°	710.2
37.5°	584.3
40°	461.6
42.5°	349.7
45°	258.0
47.5°	192.7
50°	149.2
52.5°	113.4
55°	85.5
57.5°	63.7
60°	49.7
62.5°	37.3
65°	28.0
67.5°	17.1
70°	10.9
72.5°	6.2
75°	4.7
77.5°	3.1
80°	3.1
82.5°	3.1
85°	1.6
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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Scaled Data Report



(END OF REPORT)