

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: P643278

Luminaire Tested: ML5615LSVWFL759FS1E - 692W - 1500LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643278  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-85)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL759FS1E - 692W - 1500LM - 3500K  
Description: ML56 RR, 75D TIR OPTIC, 6" WHITE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

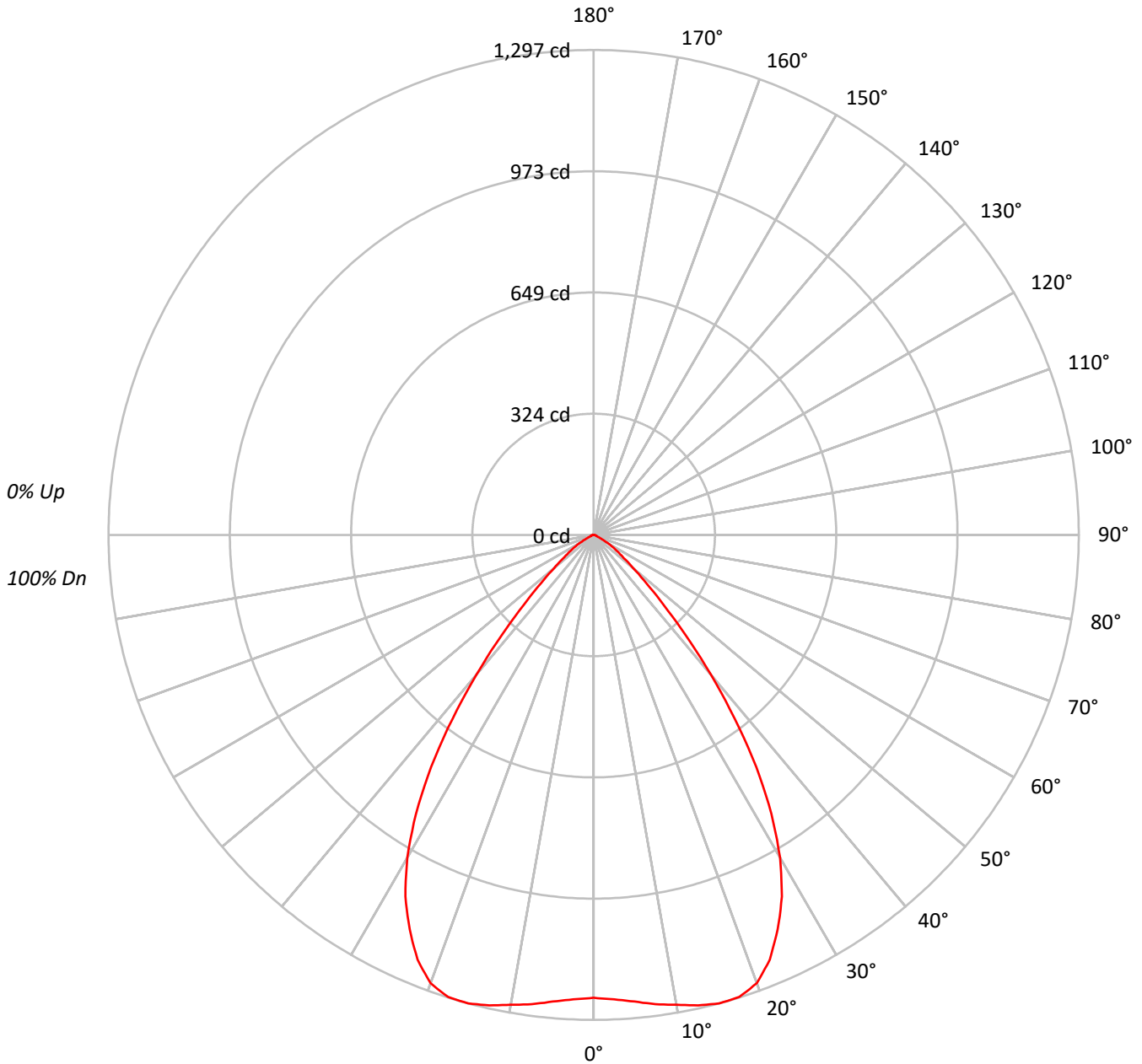
Lumens per Lamp: N/A  
Luminaire Lumens: 1797.3 lumens  
Efficiency: N/A  
Efficacy: 105.1 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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									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	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	100	100	98	97	96	95	94	92																											
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	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	58																											
7	78	68	61	56	77	67	61	56	66	60	56	65	60	56	63	59	55	54																											
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50																											
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	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°	67862
5°	68936
10°	71019
15°	73616
20°	74428
25°	70407
30°	63067
35°	50721
40°	34822
45°	20390
50°	11778
55°	7541
60°	4506
65°	2127
70°	1314
75°	1398
80°	1042
85°	1006

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20390 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.4	6.7
10°-20°	365.6	20.3
20°-30°	530.8	29.5
30°-40°	465.4	25.9
40°-50°	215.0	12.0
50°-60°	73.1	4.1
60°-70°	18.6	1.0
70°-80°	6.7	0.4
80°-90°	1.8	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°	1016.7	56.6
0°-40°	1482.1	82.5
0°-60°	1770.2	98.5
0°-90°	1797.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1797.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1238	
5°	1253	120
15°	1297	366
25°	1164	531
35°	758	465
45°	263	215
55°	79	73
65°	16	19
75°	7	7
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1237.9
2.5°	1242.9
5°	1252.7
7.5°	1265.9
10°	1275.8
12.5°	1288.9
15°	1297.1
17.5°	1295.5
20°	1275.8
22.5°	1229.7
25°	1164.0
27.5°	1090.0
30°	996.3
32.5°	884.5
35°	757.9
37.5°	619.8
40°	486.6
42.5°	363.3
45°	263.0
47.5°	190.7
50°	138.1
52.5°	101.9
55°	78.9
57.5°	59.2
60°	41.1
62.5°	24.7
65°	16.4
67.5°	9.9
70°	8.2
72.5°	8.2
75°	6.6
77.5°	4.9
80°	3.3
82.5°	3.3
85°	1.6
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)