

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: P643104

Luminaire Tested: ML5615LSVWFL759FS1E - 592W - 900LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643104  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-73)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL759FS1E - 592W - 900LM - 4000K  
Description: ML56 RR, 75D TIR OPTIC, 5" WHITE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1225.5 lumens  
Efficiency: N/A  
Efficacy: 116.7 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

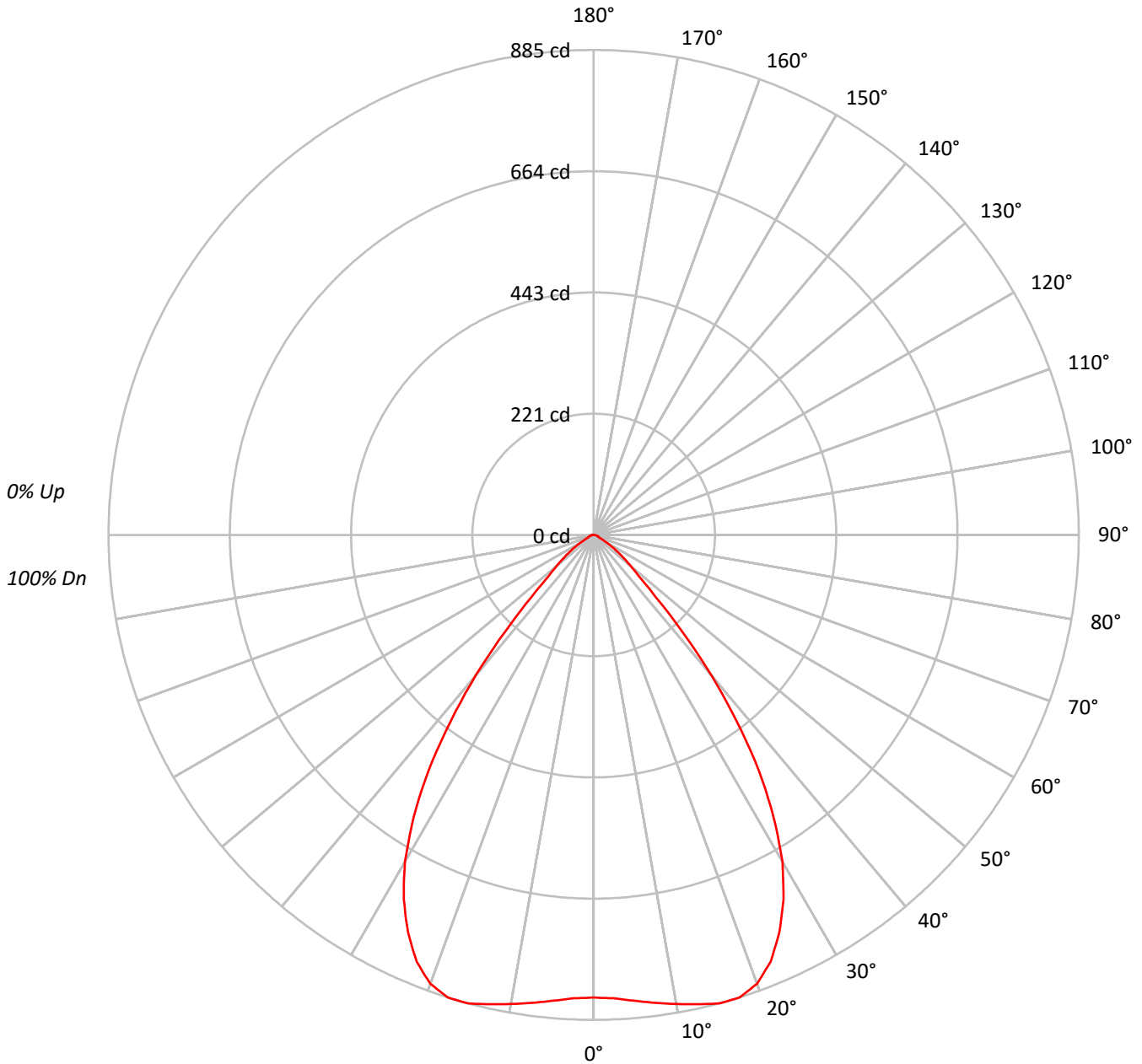
Input Watts (W): 10.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	87	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	58																			
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	59	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°	66642
5°	67618
10°	69674
15°	72335
20°	73212
25°	69768
30°	62759
35°	50700
40°	34419
45°	17885
50°	10881
55°	7198
60°	3773
65°	2129
70°	2100
75°	2074
80°	2046
85°	2083

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17885 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.0	6.7
10°-20°	249.4	20.4
20°-30°	364.8	29.8
30°-40°	321.8	26.3
40°-50°	136.8	11.2
50°-60°	47.5	3.9
60°-70°	13.6	1.1
70°-80°	7.2	0.6
80°-90°	2.5	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°	696.1	56.8
0°-40°	1017.9	83.1
0°-60°	1202.3	98.1
0°-90°	1225.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1225.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	844	
5°	853	82
15°	885	249
25°	801	365
35°	526	322
45°	160	137
55°	52	48
65°	11	14
75°	7	7
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	844.2
2.5°	846.5
5°	853.3
7.5°	861.2
10°	869.2
12.5°	877.1
15°	885.1
17.5°	885.1
20°	871.5
22.5°	843.0
25°	801.0
27.5°	749.9
30°	688.5
32.5°	611.3
35°	526.1
37.5°	428.3
40°	334.0
42.5°	237.5
45°	160.2
47.5°	111.3
50°	88.6
52.5°	68.2
55°	52.3
57.5°	37.5
60°	23.9
62.5°	17.0
65°	11.4
67.5°	10.2
70°	9.1
72.5°	8.0
75°	6.8
77.5°	5.7
80°	4.5
82.5°	3.4
85°	2.3
87.5°	1.1
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)