

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: P643287

Luminaire Tested: ML5615LSVWFL759FS1E - 693BB - 1200LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643287  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-87)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL759FS1E - 693BB - 1200LM - 3000K  
Description: ML56 RR, 75D TIR OPTIC, 6" BLACK BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1367.2 lumens  
Efficiency: N/A  
Efficacy: 102.0 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

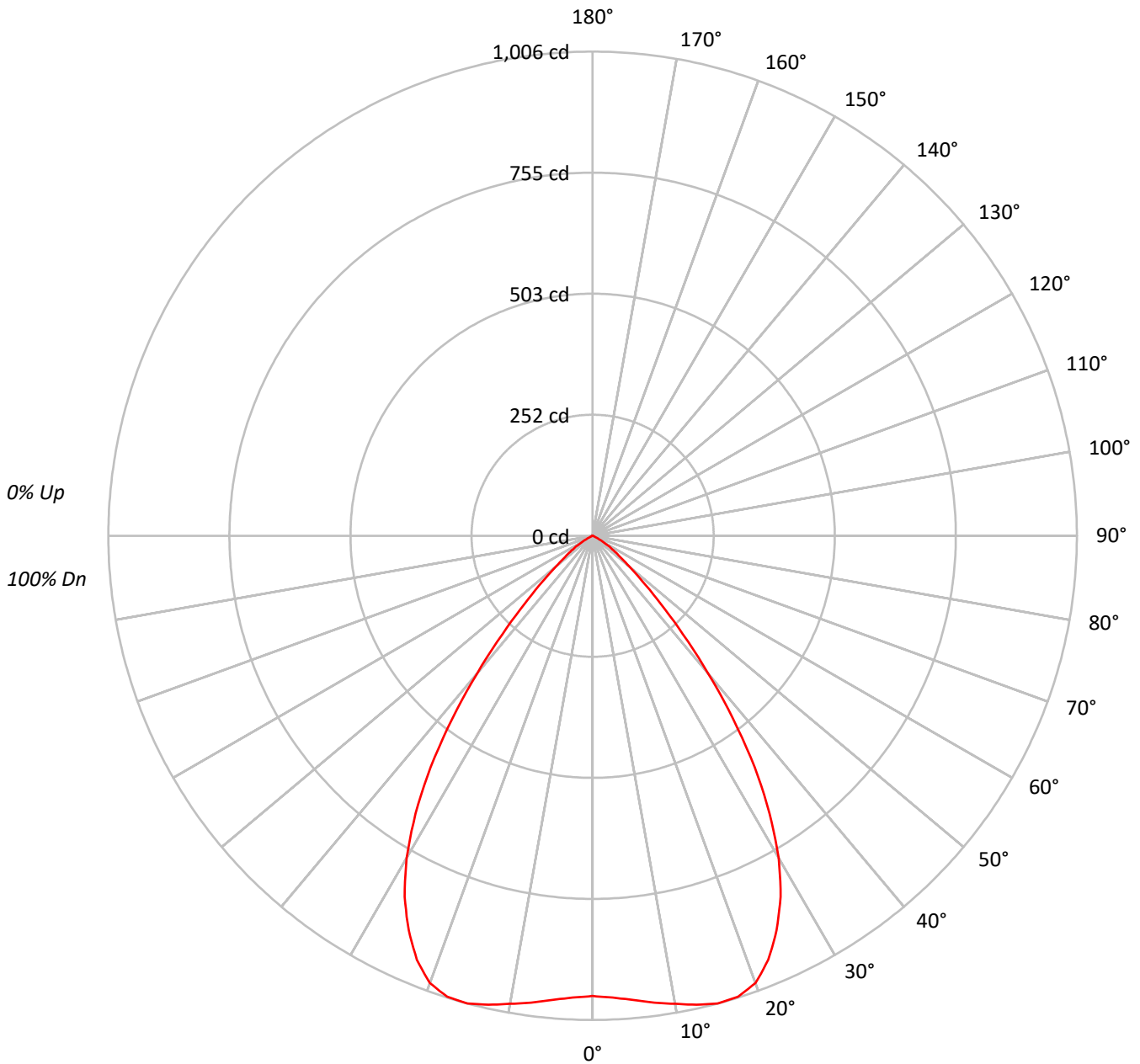
Input Watts (W): 13.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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									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	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	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92																												
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84																												
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77																												
4	95	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	71																												
5	89	80	73	68	87	79	73	68	77	72	67	75	70	67	73	69	66	65																												
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59																												
7	79	69	62	57	78	68	62	57	67	61	57	65	60	56	64	60	56	55																												
8	75	64	57	53	73	63	57	53	62	56	52	61	56	52	60	55	52	50																												
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47																												
10	67	56	50	45	66	55	49	45	55	49	45	54	49	45	53	48	45	43																												

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

	0°
0°	52425
5°	53269
10°	54976
15°	57083
20°	57691
25°	54699
30°	48925
35°	39270
40°	26721
45°	15436
50°	8435
55°	5094
60°	2566
65°	675
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15436 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.1	6.8
10°-20°	283.3	20.7
20°-30°	411.9	30.1
30°-40°	359.9	26.3
40°-50°	162.2	11.9
50°-60°	49.6	3.6
60°-70°	7.3	0.5
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	788.2	57.7
0°-40°	1148.1	84.0
0°-60°	1359.9	99.5
0°-90°	1367.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1367.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	956	
5°	968	93
15°	1006	283
25°	904	412
35°	587	360
45°	199	162
55°	53	50
65°	5	7
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	956.3
2.5°	960.2
5°	968.0
7.5°	978.5
10°	987.6
12.5°	998.0
15°	1005.8
17.5°	1004.5
20°	988.9
22.5°	953.7
25°	904.3
27.5°	845.7
30°	772.9
32.5°	684.4
35°	586.8
37.5°	478.8
40°	373.4
42.5°	277.1
45°	199.1
47.5°	140.5
50°	98.9
52.5°	71.6
55°	53.3
57.5°	37.7
60°	23.4
62.5°	11.7
65°	5.2
67.5°	1.3
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
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)