

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: P643664

Luminaire Tested: ML5615LSVWFL9FS1E - 693TBZB - 1200LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643664  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-112)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL9FS1E - 693TBZB - 1200LM - 4000K  
Description: ML56 RR, MILKY OPTIC, 6" TUSCON BRONZE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1169.9 lumens  
Efficiency: N/A  
Efficacy: 87.3 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.21  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

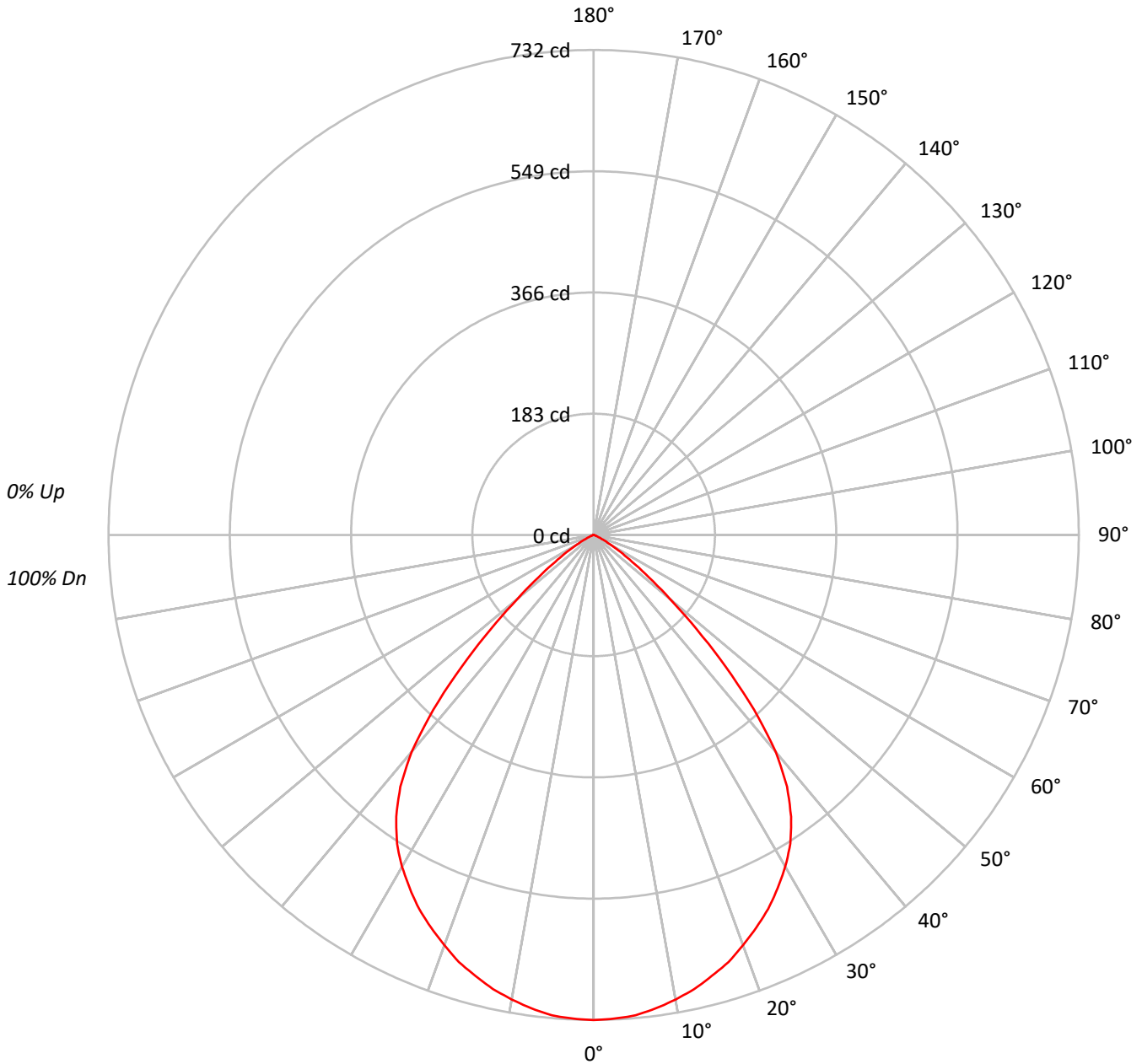
Input Watts (W): 13.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91				
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82				
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74				
4	92	83	77	72	90	82	76	71	80	75	70	78	73	69	76	72	69	67				
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60				
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55				
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50				
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46				
9	67	56	49	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42				
10	63	52	45	40	62	51	45	40	50	44	40	50	44	40	49	44	40	38				

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

	0°
0°	40145
5°	40056
10°	39640
15°	39109
20°	38439
25°	37678
30°	36607
35°	34753
40°	30579
45°	21863
50°	12759
55°	6738
60°	3158
65°	1310
70°	465
75°	297
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 21863 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.9	5.9
10°-20°	194.3	16.6
20°-30°	286.4	24.5
30°-40°	320.7	27.4
40°-50°	217.4	18.6
50°-60°	69.0	5.9
60°-70°	11.6	1.0
70°-80°	1.5	0.1
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°	549.7	47.0
0°-40°	870.3	74.4
0°-60°	1156.8	98.9
0°-90°	1169.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1169.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	732	
5°	728	69
15°	689	194
25°	623	286
35°	519	321
45°	282	217
55°	70	69
65°	10	12
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	732.3
2.5°	730.8
5°	727.9
7.5°	720.7
10°	712.1
12.5°	702.0
15°	689.1
17.5°	676.1
20°	658.9
22.5°	641.6
25°	622.9
27.5°	601.3
30°	578.3
32.5°	552.4
35°	519.3
37.5°	479.1
40°	427.3
42.5°	358.2
45°	282.0
47.5°	210.0
50°	149.6
52.5°	105.0
55°	70.5
57.5°	47.5
60°	28.8
62.5°	17.3
65°	10.1
67.5°	4.3
70°	2.9
72.5°	1.4
75°	1.4
77.5°	1.4
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)