

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: P643679

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

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643679  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-109)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL9FS1E - 693WB - 1200LM - 4000K  
Description: ML56 RR, MILKY OPTIC, 6" WHITE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1437.8 lumens  
Efficiency: N/A  
Efficacy: 107.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

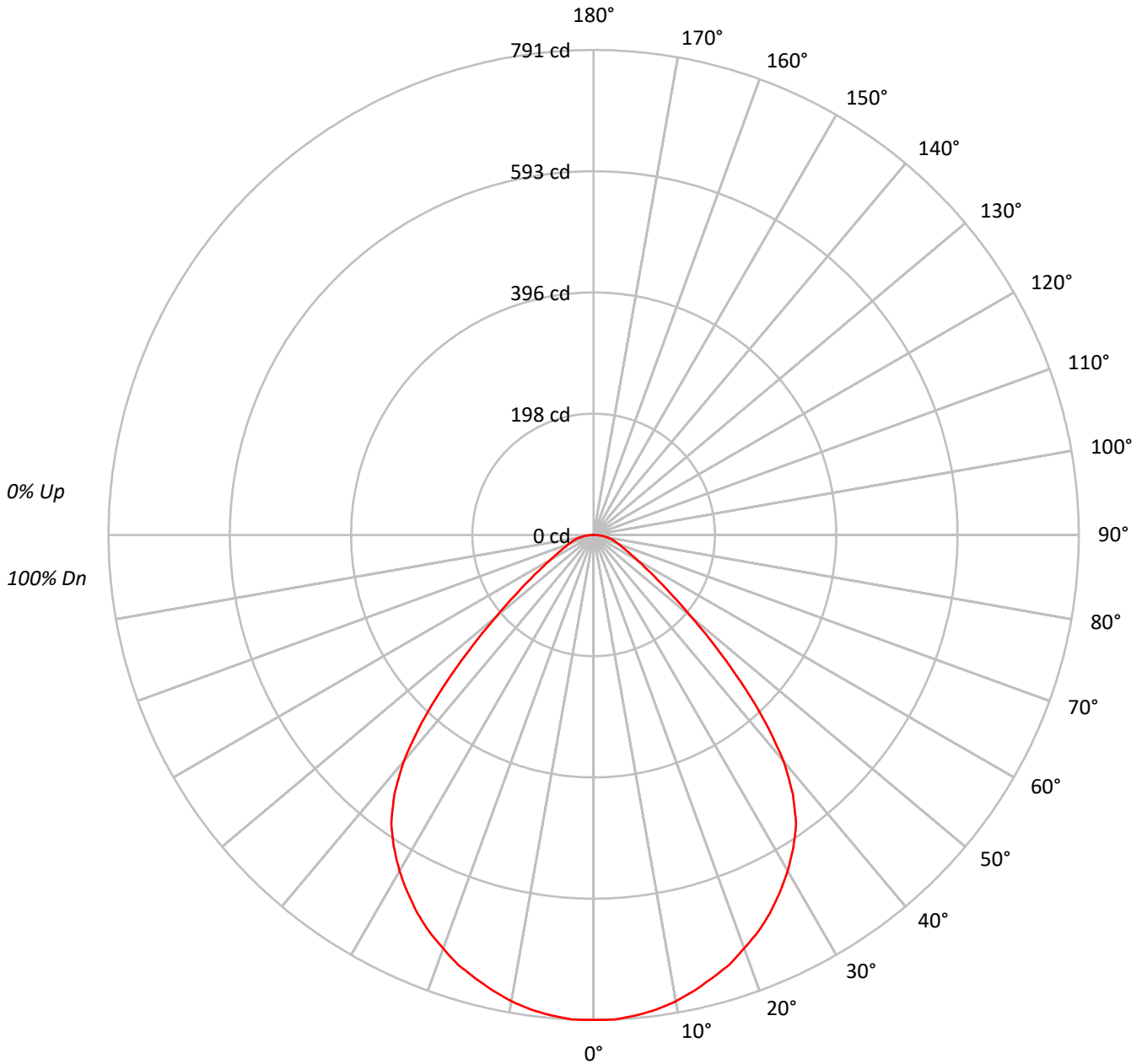
Input Watts (W): 13.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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			100
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89			89
2	103	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	79			79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	70			70
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62			62
5	83	73	65	59	81	71	64	59	70	63	58	68	62	58	66	61	57	56			56
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50			50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45			45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41			41
9	64	52	45	40	63	52	45	40	50	44	40	49	44	39	48	43	39	38			38
10	60	48	41	37	59	48	41	36	47	41	36	46	40	36	45	40	36	34			34

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

	0°
0°	43368
5°	43297
10°	42996
15°	42452
20°	41869
25°	41150
30°	40063
35°	38501
40°	34486
45°	26321
50°	17663
55°	12100
60°	8991
65°	7459
70°	6924
75°	7011
80°	6819
85°	6353

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 26321 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.7	5.2
10°-20°	211.0	14.7
20°-30°	312.8	21.8
30°-40°	355.0	24.7
40°-50°	261.5	18.2
50°-60°	118.5	8.2
60°-70°	58.5	4.1
70°-80°	34.4	2.4
80°-90°	11.6	0.8
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°	598.5	41.6
0°-40°	953.5	66.3
0°-60°	1333.4	92.7
0°-90°	1437.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1437.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	791	
5°	787	75
15°	748	211
25°	680	313
35°	575	355
45°	340	261
55°	127	118
65°	58	58
75°	33	34
85°	10	12
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	791.1
2.5°	791.1
5°	786.8
7.5°	781.0
10°	772.4
12.5°	760.9
15°	748.0
17.5°	735.0
20°	717.7
22.5°	700.5
25°	680.3
27.5°	657.3
30°	632.9
32.5°	605.6
35°	575.3
37.5°	533.6
40°	481.9
42.5°	414.3
45°	339.5
47.5°	267.5
50°	207.1
52.5°	161.1
55°	126.6
57.5°	100.7
60°	82.0
62.5°	67.6
65°	57.5
67.5°	48.9
70°	43.2
72.5°	37.4
75°	33.1
77.5°	27.3
80°	21.6
82.5°	17.3
85°	10.1
87.5°	4.3
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)