

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: P643678

Luminaire Tested: ML5615LSVWFL9FS1E - 693WB - 1200LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643678  
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 - 3500K  
Description: ML56 RR, MILKY OPTIC, 6" WHITE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

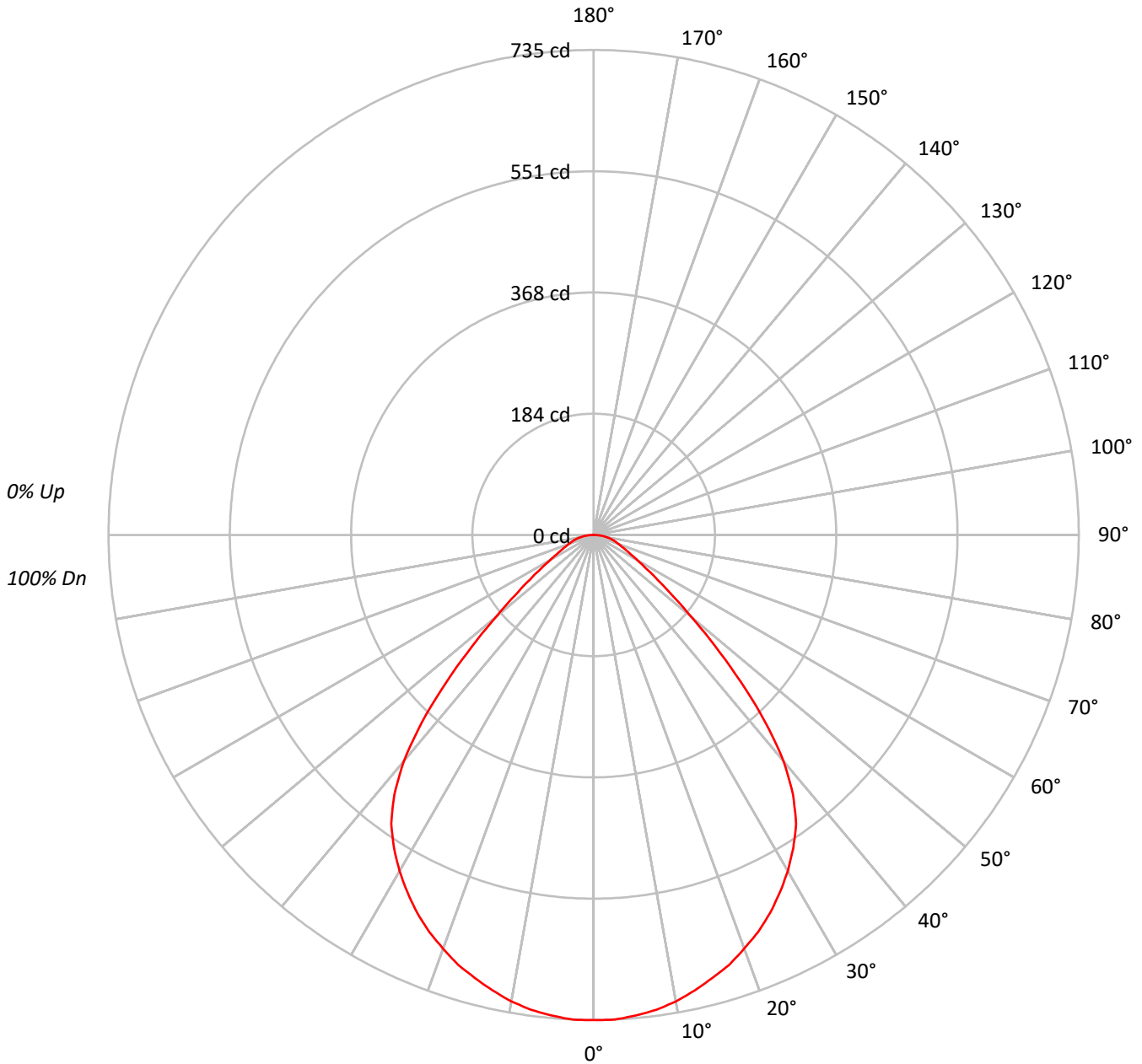
Lumens per Lamp: N/A  
Luminaire Lumens: 1336.3 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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

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

	0°
0°	40309
5°	40238
10°	39963
15°	39450
20°	38918
25°	38246
30°	37234
35°	35784
40°	32046
45°	24460
50°	16417
55°	11240
60°	8355
65°	6940
70°	6427
75°	6503
80°	6346
85°	5913

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 24460 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.4	5.2
10°-20°	196.1	14.7
20°-30°	290.7	21.8
30°-40°	329.9	24.7
40°-50°	243.0	18.2
50°-60°	110.1	8.2
60°-70°	54.4	4.1
70°-80°	31.9	2.4
80°-90°	10.7	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°	556.3	41.6
0°-40°	886.2	66.3
0°-60°	1239.3	92.7
0°-90°	1336.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1336.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	735	
5°	731	69
15°	695	196
25°	632	291
35°	535	330
45°	316	243
55°	118	110
65°	54	54
75°	31	32
85°	9	11
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	735.3
2.5°	735.3
5°	731.2
7.5°	725.9
10°	717.9
12.5°	707.2
15°	695.1
17.5°	683.1
20°	667.1
22.5°	651.0
25°	632.3
27.5°	610.9
30°	588.2
32.5°	562.8
35°	534.7
37.5°	496.0
40°	447.8
42.5°	385.0
45°	315.5
47.5°	248.6
50°	192.5
52.5°	149.7
55°	117.6
57.5°	93.6
60°	76.2
62.5°	62.8
65°	53.5
67.5°	45.5
70°	40.1
72.5°	34.8
75°	30.7
77.5°	25.4
80°	20.1
82.5°	16.0
85°	9.4
87.5°	4.0
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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Scaled Data Report



(END OF REPORT)