

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: P643680

Luminaire Tested: ML5615LSVWFL9FS1E - 693WB - 1200LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643680  
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 - 5000K  
Description: ML56 RR, MILKY OPTIC, 6" WHITE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

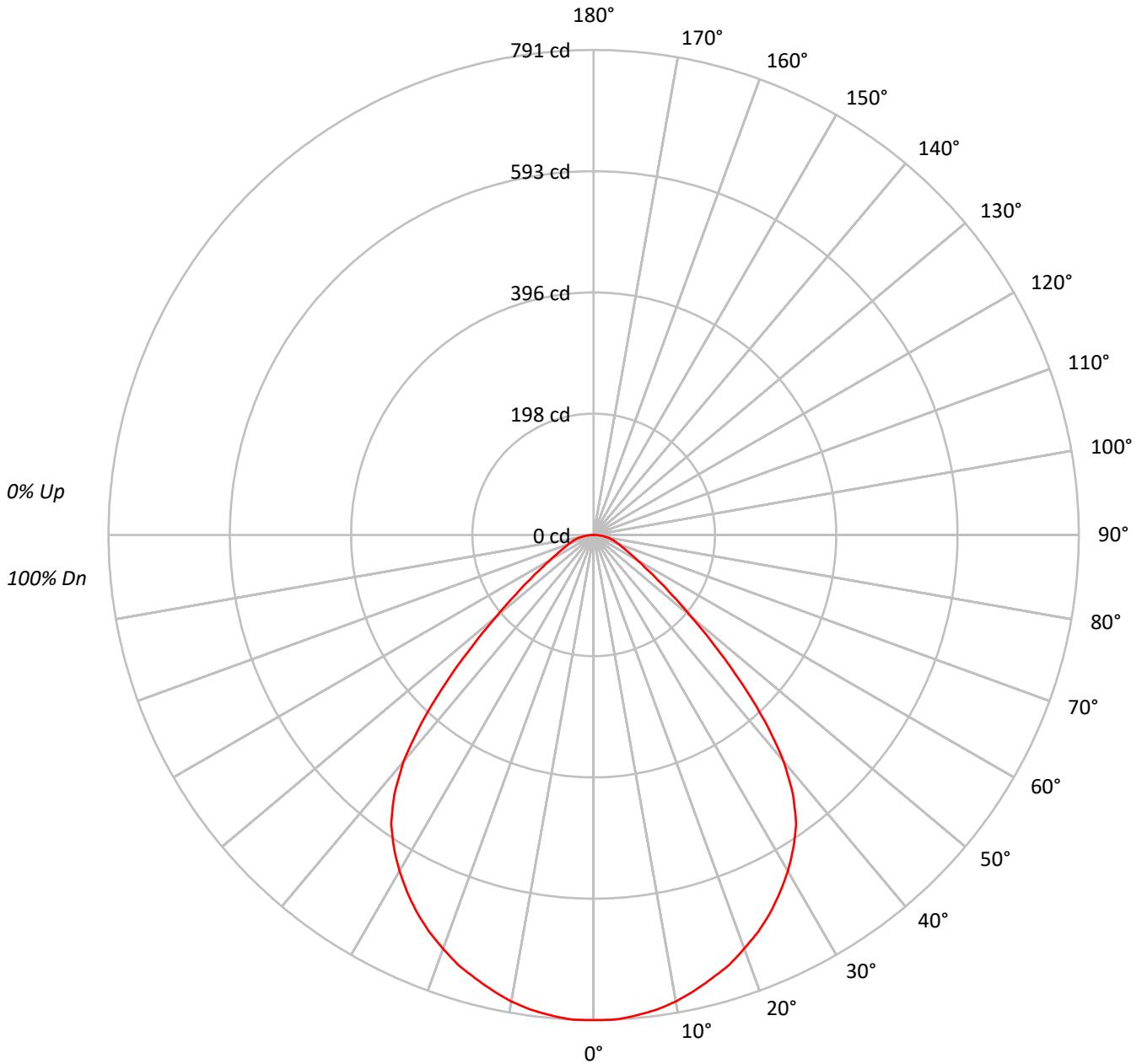
Lumens per Lamp: N/A  
Luminaire Lumens: 1438.3 lumens  
Efficiency: N/A  
Efficacy: 107.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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



TEST NUMBER: P643680  
CATALOG NUMBER: ML5615LSVWFL9FS1E - 693WB - 1200LM - 5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P643680

CATALOG NUMBER: ML5615LSVWFL9FS1E - 693WB - 1200LM - 5000K

**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°	43385
5°	43314
10°	43013
15°	42463
20°	41887
25°	41168
30°	40076
35°	38521
40°	34493
45°	26328
50°	17671
55°	12100
60°	8991
65°	7472
70°	6924
75°	7011
80°	6819
85°	6353

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 26328 cd/sqm



TEST NUMBER: P643680

CATALOG NUMBER: ML5615LSVWFL9FS1E - 693WB - 1200LM - 5000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.7	5.2
10°-20°	211.1	14.7
20°-30°	313.0	21.8
30°-40°	355.1	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°	598.8	41.6
0°-40°	953.9	66.3
0°-60°	1333.9	92.7
0°-90°	1438.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1438.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	791	
5°	787	75
15°	748	211
25°	681	313
35°	576	355
45°	340	262
55°	127	119
65°	58	58
75°	33	34
85°	10	12
90°	0	



TEST NUMBER: P643680

CATALOG NUMBER: ML5615LSVWFL9FS1E - 693WB - 1200LM - 5000K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	791.4
2.5°	791.4
5°	787.1
7.5°	781.3
10°	772.7
12.5°	761.2
15°	748.2
17.5°	735.3
20°	718.0
22.5°	700.8
25°	680.6
27.5°	657.6
30°	633.1
32.5°	605.8
35°	575.6
37.5°	533.8
40°	482.0
42.5°	414.4
45°	339.6
47.5°	267.6
50°	207.2
52.5°	161.2
55°	126.6
57.5°	100.7
60°	82.0
62.5°	67.6
65°	57.6
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

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)