

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: P643505

Luminaire Tested: ML5615LSVWFL9FS1E - 593WB - 1500LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643505  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-97)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL9FS1E - 593WB - 1500LM - 5000K  
Description: ML56 RR, MILKY OPTIC, 5" WHITE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

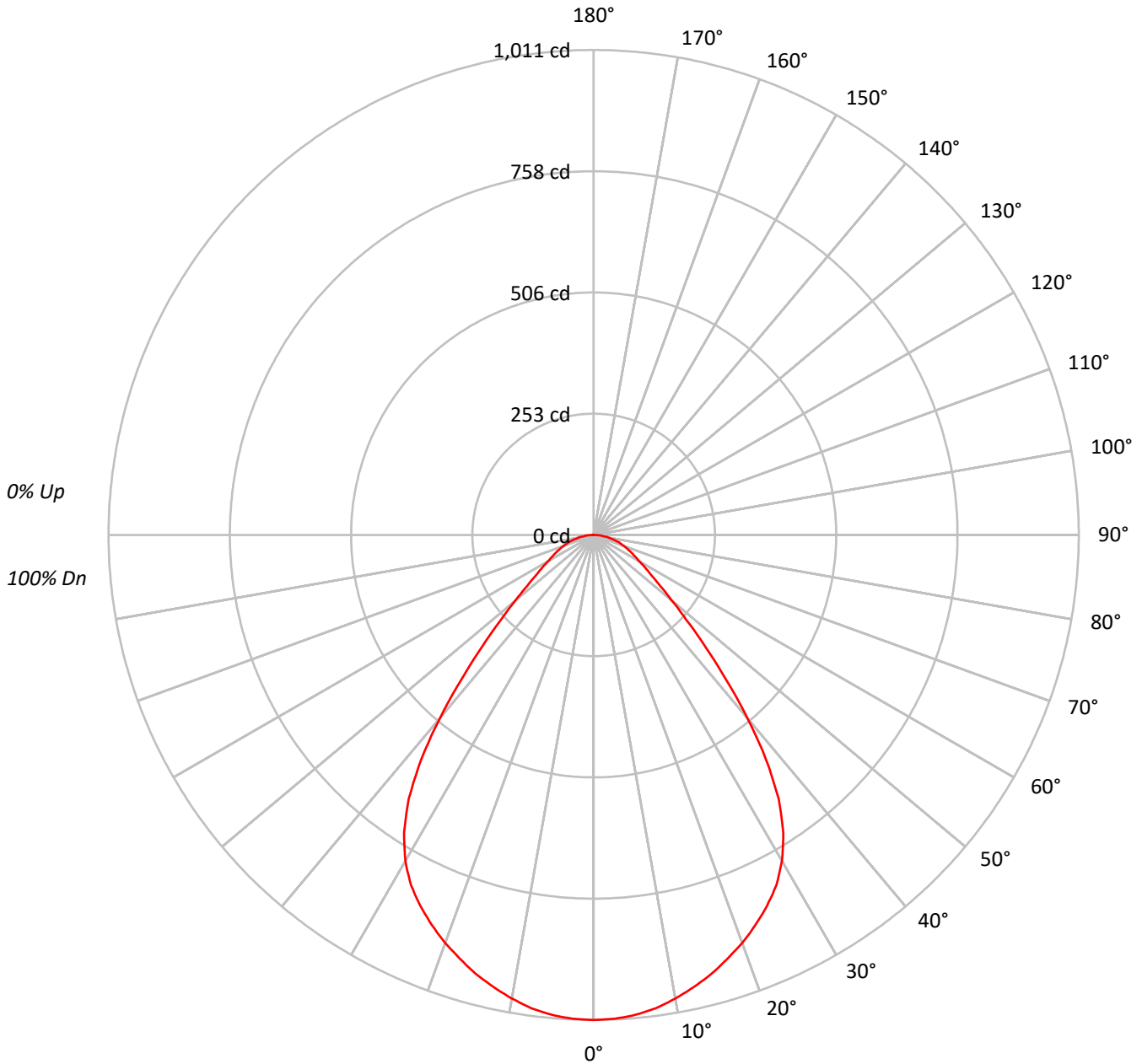
Lumens per Lamp: N/A  
Luminaire Lumens: 1713.1 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.14  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 17.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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: P643505

CATALOG NUMBER: ML5615LSVWFL9FS1E - 593WB - 1500LM - 5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P643505

CATALOG NUMBER: ML5615LSVWFL9FS1E - 593WB - 1500LM - 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	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	86	83	80	78																			
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69																			
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62																			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56																			
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50																			
7	73	61	54	49	72	61	54	48	59	53	48	58	52	48	57	51	48	46																			
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	44	42																			
9	65	53	45	41	63	52	45	41	51	45	40	50	44	40	49	44	40	38																			
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35																			

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

	0°
0°	79833
5°	79583
10°	78660
15°	77451
20°	76043
25°	74385
30°	71555
35°	64750
40°	51381
45°	36517
50°	26060
55°	20190
60°	17304
65°	16176
70°	15510
75°	15098
80°	14456
85°	12771

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 36517 cd/sqm



TEST NUMBER: P643505

CATALOG NUMBER: ML5615LSVWFL9FS1E - 593WB - 1500LM - 5000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.2	5.6
10°-20°	267.0	15.6
20°-30°	392.3	22.9
30°-40°	411.0	24.0
40°-50°	258.5	15.1
50°-60°	135.9	7.9
60°-70°	86.1	5.0
70°-80°	51.7	3.0
80°-90°	15.4	0.9
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°	754.4	44.0
0°-40°	1165.4	68.0
0°-60°	1559.9	91.1
0°-90°	1713.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1713.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1011	
5°	1004	95
15°	948	267
25°	854	392
35°	672	411
45°	327	259
55°	147	136
65°	87	86
75°	50	52
85°	14	15
90°	0	



TEST NUMBER: P643505

CATALOG NUMBER: ML5615LSVWFL9FS1E - 593WB - 1500LM - 5000K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1011.3
2.5°	1009.6
5°	1004.3
7.5°	995.4
10°	981.3
12.5°	965.4
15°	947.7
17.5°	926.5
20°	905.2
22.5°	880.5
25°	854.0
27.5°	823.9
30°	785.0
32.5°	735.5
35°	671.9
37.5°	590.5
40°	498.6
42.5°	406.7
45°	327.1
47.5°	261.7
50°	212.2
52.5°	175.0
55°	146.7
57.5°	127.3
60°	109.6
62.5°	97.2
65°	86.6
67.5°	76.0
70°	67.2
72.5°	58.3
75°	49.5
77.5°	38.9
80°	31.8
82.5°	21.2
85°	14.1
87.5°	5.3
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)