

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: P643544

Luminaire Tested: ML5615LSVWFL9FS1E - 594WB - 1200LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643544  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-101)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL9FS1E - 594WB - 1200LM - 4000K  
Description: ML56 RR, MILKY OPTIC, 5" WHITE GIMBAL TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

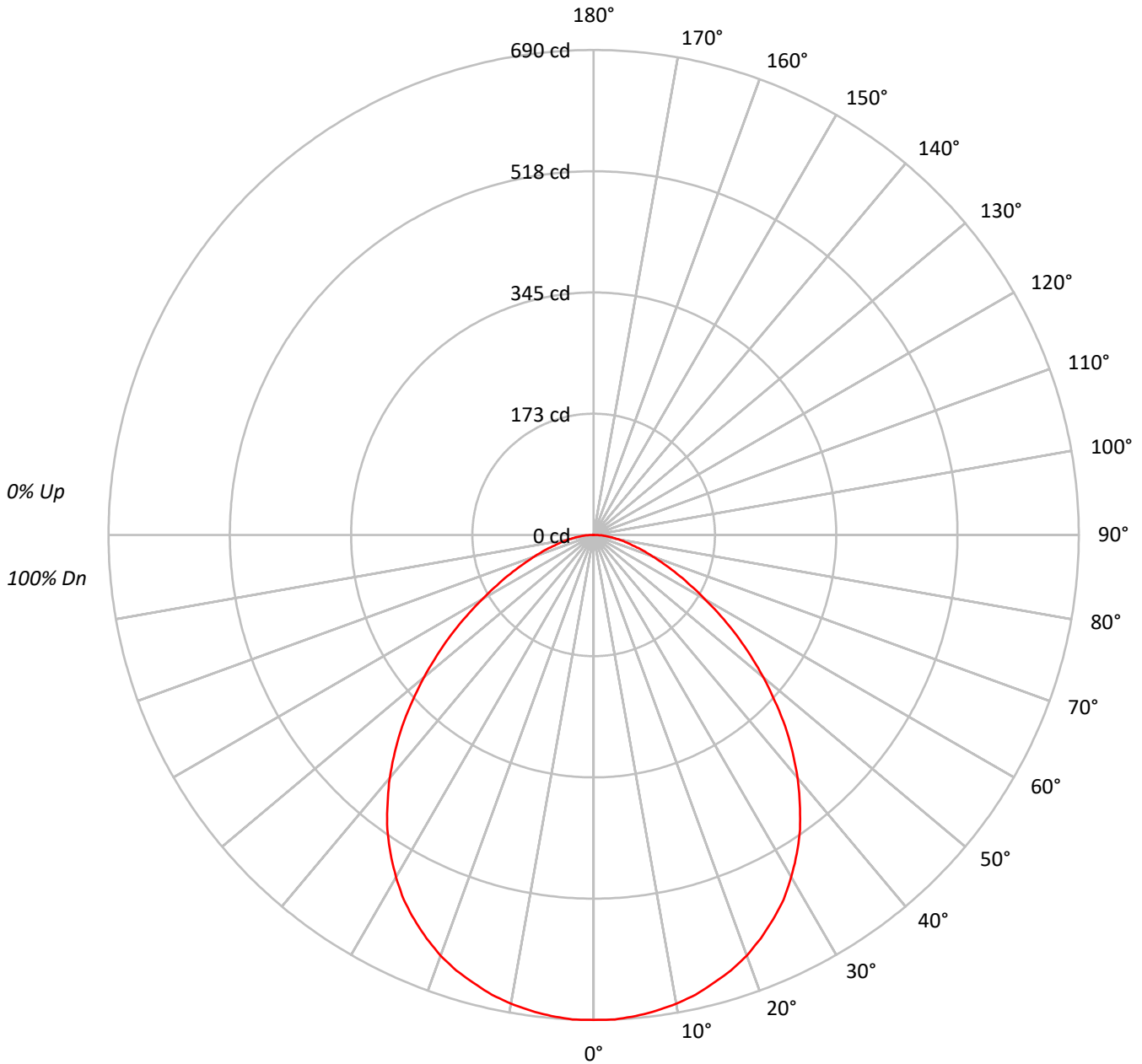
Lumens per Lamp: N/A  
Luminaire Lumens: 1577.2 lumens  
Efficiency: N/A  
Efficacy: 117.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.28  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86																			
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74																			
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64																			
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56																			
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	60	55	51	49																			
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43																			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39																			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35																			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	31																			
10	56	43	36	31	55	43	36	31	42	35	31	41	35	31	40	34	30	29																			

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

0°	
0°	54477
5°	54455
10°	54283
15°	53931
20°	53504
25°	52592
30°	51237
35°	49322
40°	46517
45°	43015
50°	38673
55°	34036
60°	28829
65°	24432
70°	20565
75°	17538
80°	15684
85°	14311

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 43015 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.3	4.1
10°-20°	186.3	11.8
20°-30°	277.8	17.6
30°-40°	318.7	20.2
40°-50°	296.0	18.8
50°-60°	221.1	14.0
60°-70°	130.9	8.3
70°-80°	62.9	4.0
80°-90°	18.4	1.2
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°	529.4	33.6
0°-40°	848.1	53.8
0°-60°	1365.1	86.5
0°-90°	1577.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1577.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	690	
5°	687	65
15°	660	186
25°	604	278
35°	512	319
45°	385	296
55°	247	221
65°	131	131
75°	58	63
85°	16	18
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	690.1
2.5°	690.1
5°	687.2
7.5°	682.9
10°	677.2
12.5°	670.0
15°	659.9
17.5°	649.8
20°	636.9
22.5°	621.1
25°	603.8
27.5°	585.1
30°	562.1
32.5°	537.7
35°	511.8
37.5°	481.6
40°	451.4
42.5°	418.4
45°	385.3
47.5°	349.4
50°	314.9
52.5°	280.4
55°	247.3
57.5°	214.2
60°	182.6
62.5°	155.3
65°	130.8
67.5°	107.8
70°	89.1
72.5°	73.3
75°	57.5
77.5°	46.0
80°	34.5
82.5°	24.4
85°	15.8
87.5°	10.1
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)