

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: P643589

Luminaire Tested: ML5615LSVWFL9FS1E - 692H - 1200LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643589  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-107)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL9FS1E - 692H - 1200LM - 4000K  
Description: ML56 RR, MILKY OPTIC, 6" HAZE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

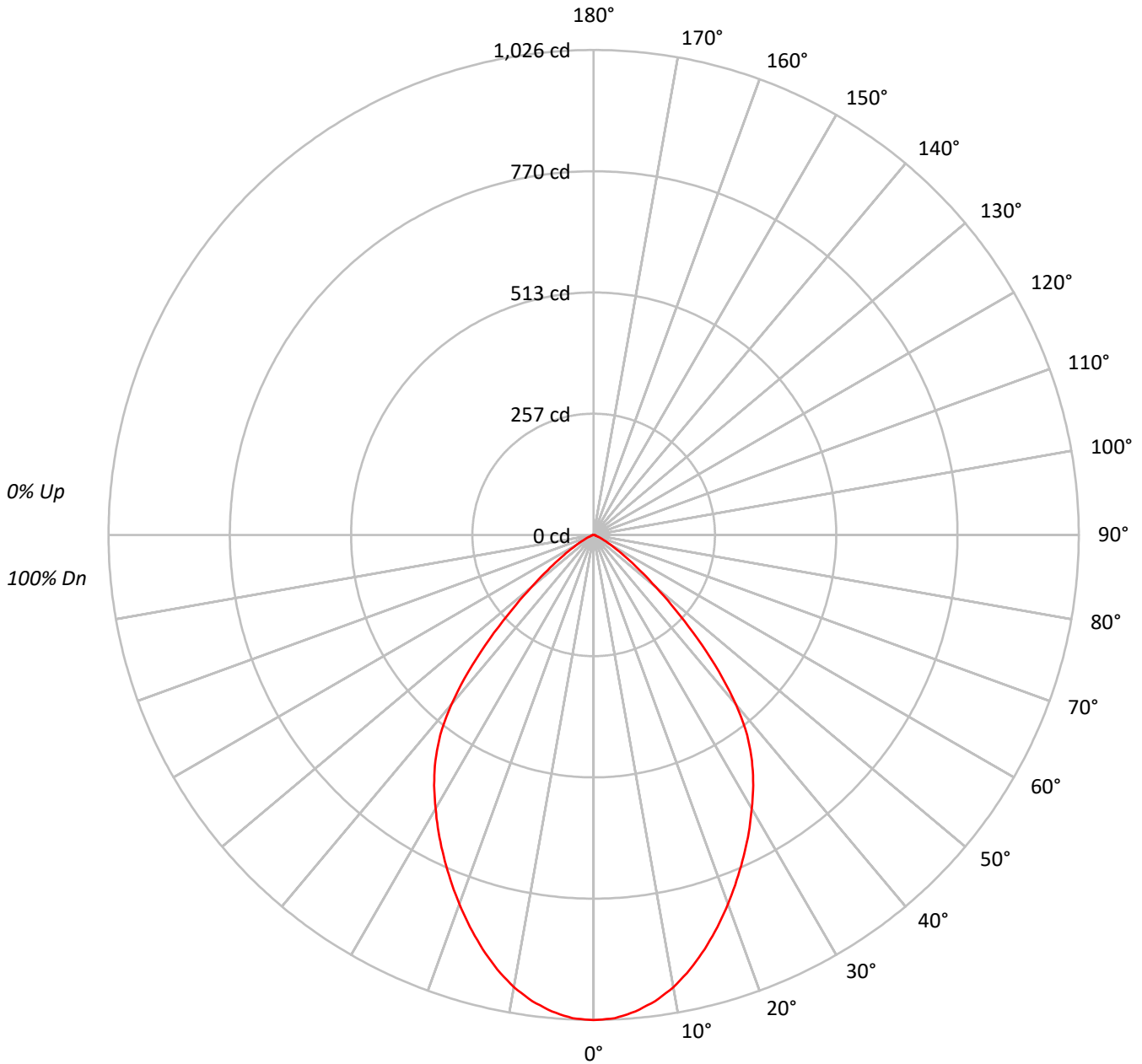
Lumens per Lamp: N/A  
Luminaire Lumens: 1401.9 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.1  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91																			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83																			
3	99	91	86	81	97	90	85	80	87	83	79	85	81	78	82	79	76	75																			
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	67																			
5	87	77	70	65	85	76	70	65	74	68	64	72	67	64	71	66	63	61																			
6	81	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	57	56																			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51																			
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	48	47																			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43																			
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40																			

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

	0°
0°	56267
5°	55695
10°	54096
15°	51482
20°	48473
25°	45390
30°	42317
35°	39063
40°	33534
45°	24072
50°	14592
55°	8248
60°	4419
65°	2050
70°	1154
75°	911
80°	442
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 24072 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.3	6.8
10°-20°	254.5	18.2
20°-30°	345.1	24.6
30°-40°	361.0	25.7
40°-50°	240.2	17.1
50°-60°	82.6	5.9
60°-70°	18.5	1.3
70°-80°	4.2	0.3
80°-90°	0.6	0.0
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°	694.9	49.6
0°-40°	1055.9	75.3
0°-60°	1378.6	98.3
0°-90°	1401.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1401.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1026	
5°	1012	95
15°	907	254
25°	750	345
35°	584	361
45°	310	240
55°	86	83
65°	16	19
75°	4	4
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1026.4
2.5°	1023.6
5°	1012.1
7.5°	994.8
10°	971.8
12.5°	941.6
15°	907.1
17.5°	869.7
20°	830.9
22.5°	790.7
25°	750.4
27.5°	710.2
30°	668.5
32.5°	628.2
35°	583.7
37.5°	533.3
40°	468.6
42.5°	392.5
45°	310.5
47.5°	234.3
50°	171.1
52.5°	122.2
55°	86.3
57.5°	58.9
60°	40.3
62.5°	25.9
65°	15.8
67.5°	10.1
70°	7.2
72.5°	4.3
75°	4.3
77.5°	2.9
80°	1.4
82.5°	1.4
85°	0.0
87.5°	0.0
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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(END OF REPORT)