

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: P643682

Luminaire Tested: ML5615LSVWFL9FS1E - 693WB - 1500LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643682  
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 - 1500LM - 3000K  
Description: ML56 RR, MILKY OPTIC, 6" WHITE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1599.4 lumens  
Efficiency: N/A  
Efficacy: 93.5 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

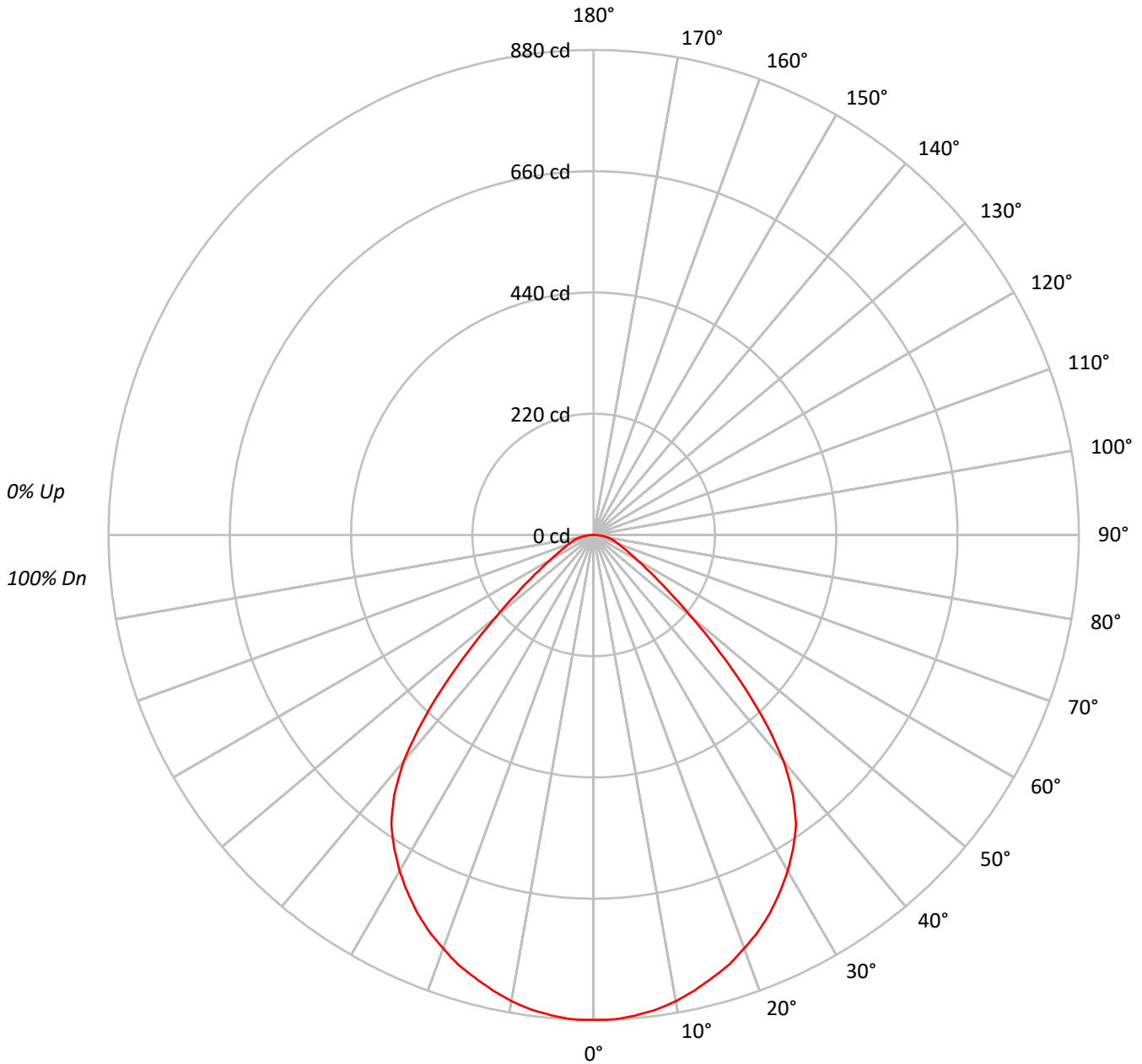
Input Watts (W): 17.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					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			100	
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89			89	
2	103	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	79			79	
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	70			70	
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62			62	
5	83	73	65	59	81	71	64	59	70	63	58	68	62	58	66	61	57	56			56	
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50			50	
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45			45	
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41			41	
9	64	52	45	40	63	52	45	40	50	44	40	49	44	39	48	43	39	38			38	
10	60	48	41	37	59	48	41	36	47	41	36	46	40	36	45	40	36	34			34	

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

	0°
0°	48242
5°	48162
10°	47828
15°	47219
20°	46577
25°	45777
30°	44564
35°	42831
40°	38358
45°	29274
50°	19650
55°	13457
60°	9999
65°	8302
70°	7694
75°	7795
80°	7577
85°	7045

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 29274 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.1	5.2
10°-20°	234.8	14.7
20°-30°	348.0	21.8
30°-40°	394.9	24.7
40°-50°	290.8	18.2
50°-60°	131.8	8.2
60°-70°	65.0	4.1
70°-80°	38.2	2.4
80°-90°	12.8	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°	665.8	41.6
0°-40°	1060.7	66.3
0°-60°	1483.3	92.7
0°-90°	1599.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1599.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	880	
5°	875	83
15°	832	235
25°	757	348
35°	640	395
45°	378	291
55°	141	132
65°	64	65
75°	37	38
85°	11	13
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	880.0
2.5°	880.0
5°	875.2
7.5°	868.8
10°	859.2
12.5°	846.4
15°	832.0
17.5°	817.6
20°	798.4
22.5°	779.2
25°	756.8
27.5°	731.2
30°	704.0
32.5°	673.6
35°	640.0
37.5°	593.6
40°	536.0
42.5°	460.8
45°	377.6
47.5°	297.6
50°	230.4
52.5°	179.2
55°	140.8
57.5°	112.0
60°	91.2
62.5°	75.2
65°	64.0
67.5°	54.4
70°	48.0
72.5°	41.6
75°	36.8
77.5°	30.4
80°	24.0
82.5°	19.2
85°	11.2
87.5°	4.8
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)