

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: P643681

Luminaire Tested: ML5615LSVWFL9FS1E - 693WB - 1500LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643681  
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 - 2700K  
Description: ML56 RR, MILKY OPTIC, 6" WHITE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

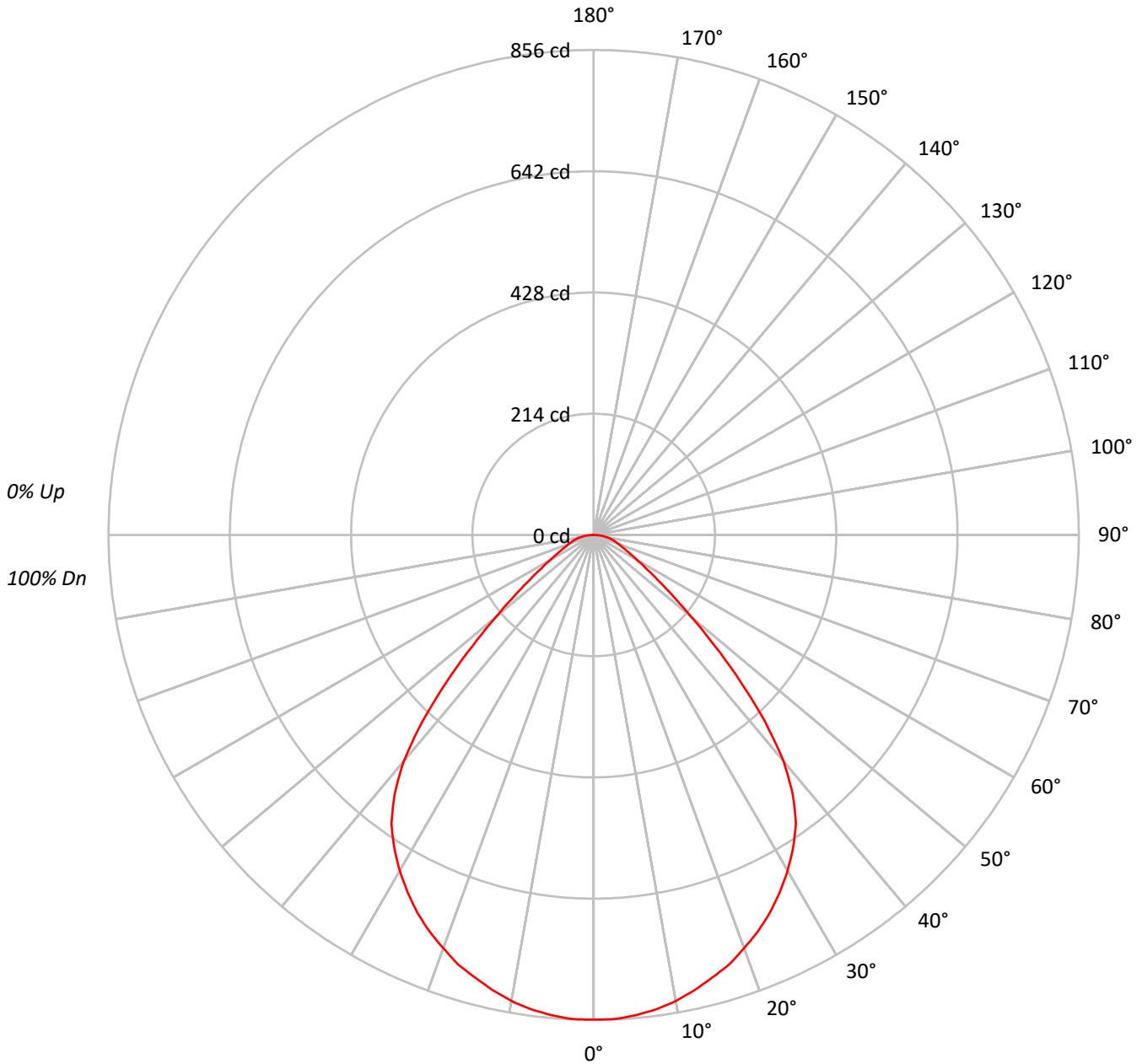
Lumens per Lamp: N/A  
Luminaire Lumens: 1554.9 lumens  
Efficiency: N/A  
Efficacy: 90.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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									
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°	46899
5°	46825
10°	46498
15°	45908
20°	45282
25°	44507
30°	43323
35°	41640
40°	37291
45°	28460
50°	19104
55°	13084
60°	9725
65°	8068
70°	7485
75°	7583
80°	7356
85°	6856

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 28460 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.7	5.2
10°-20°	228.2	14.7
20°-30°	338.3	21.8
30°-40°	383.9	24.7
40°-50°	282.7	18.2
50°-60°	128.1	8.2
60°-70°	63.2	4.1
70°-80°	37.2	2.4
80°-90°	12.5	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°	647.3	41.6
0°-40°	1031.2	66.3
0°-60°	1442.1	92.7
0°-90°	1554.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1554.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	856	
5°	851	81
15°	809	228
25°	736	338
35°	622	384
45°	367	283
55°	137	128
65°	62	63
75°	36	37
85°	11	13
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	855.5
2.5°	855.5
5°	850.9
7.5°	844.7
10°	835.3
12.5°	822.9
15°	808.9
17.5°	794.9
20°	776.2
22.5°	757.5
25°	735.8
27.5°	710.9
30°	684.4
32.5°	654.9
35°	622.2
37.5°	577.1
40°	521.1
42.5°	448.0
45°	367.1
47.5°	289.3
50°	224.0
52.5°	174.2
55°	136.9
57.5°	108.9
60°	88.7
62.5°	73.1
65°	62.2
67.5°	52.9
70°	46.7
72.5°	40.4
75°	35.8
77.5°	29.6
80°	23.3
82.5°	18.7
85°	10.9
87.5°	4.7
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)