

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: P643687

Luminaire Tested: ML5615LSVWFL9FS1E - 693WB - 900LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643687  
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 - 900LM - 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: 1028.6 lumens  
Efficiency: N/A  
Efficacy: 98.0 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

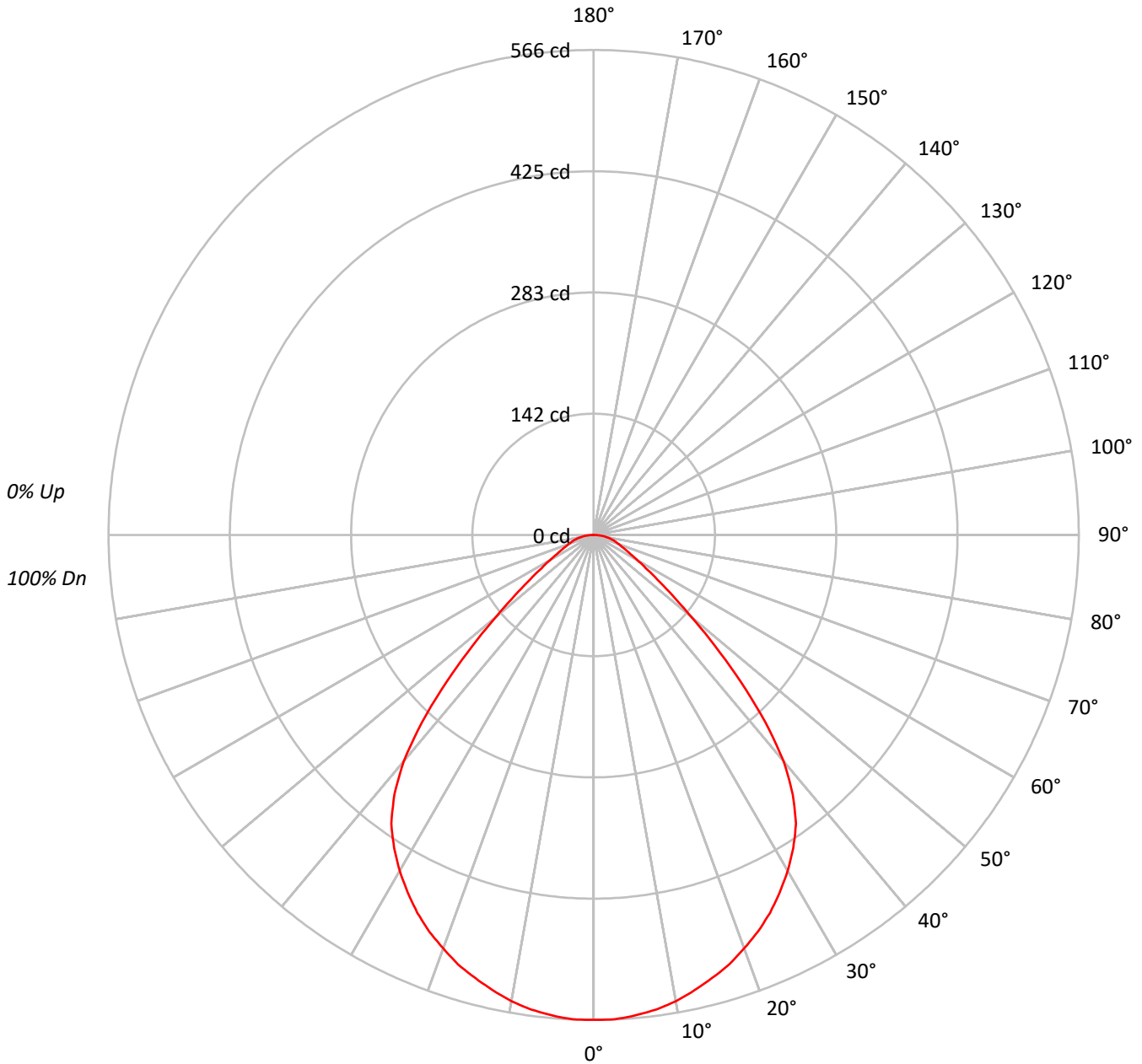
Input Watts (W): 10.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	31023
5°	30976
10°	30761
15°	30369
20°	29957
25°	29439
30°	28656
35°	27546
40°	24668
45°	18824
50°	12639
55°	8650
60°	6436
65°	5344
70°	4953
75°	5020
80°	4862
85°	4529

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18824 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.4	5.2
10°-20°	151.0	14.7
20°-30°	223.8	21.8
30°-40°	254.0	24.7
40°-50°	187.0	18.2
50°-60°	84.7	8.2
60°-70°	41.9	4.1
70°-80°	24.6	2.4
80°-90°	8.2	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°	428.2	41.6
0°-40°	682.1	66.3
0°-60°	953.9	92.7
0°-90°	1028.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1028.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	566	
5°	563	53
15°	535	151
25°	487	224
35°	412	254
45°	243	187
55°	90	85
65°	41	42
75°	24	25
85°	7	8
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	565.9
2.5°	565.9
5°	562.9
7.5°	558.7
10°	552.6
12.5°	544.3
15°	535.1
17.5°	525.8
20°	513.5
22.5°	501.1
25°	486.7
27.5°	470.2
30°	452.7
32.5°	433.2
35°	411.6
37.5°	381.8
40°	344.7
42.5°	296.3
45°	242.8
47.5°	191.4
50°	148.2
52.5°	115.2
55°	90.5
57.5°	72.0
60°	58.7
62.5°	48.4
65°	41.2
67.5°	35.0
70°	30.9
72.5°	26.8
75°	23.7
77.5°	19.6
80°	15.4
82.5°	12.3
85°	7.2
87.5°	3.1
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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(END OF REPORT)