

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: P643461

Luminaire Tested: ML5615LSVWFL9FS1E - 593BB - 900LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643461  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-98)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL9FS1E - 593BB - 900LM - 2700K  
Description: ML56 RR, MILKY OPTIC, 5" BLACK BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

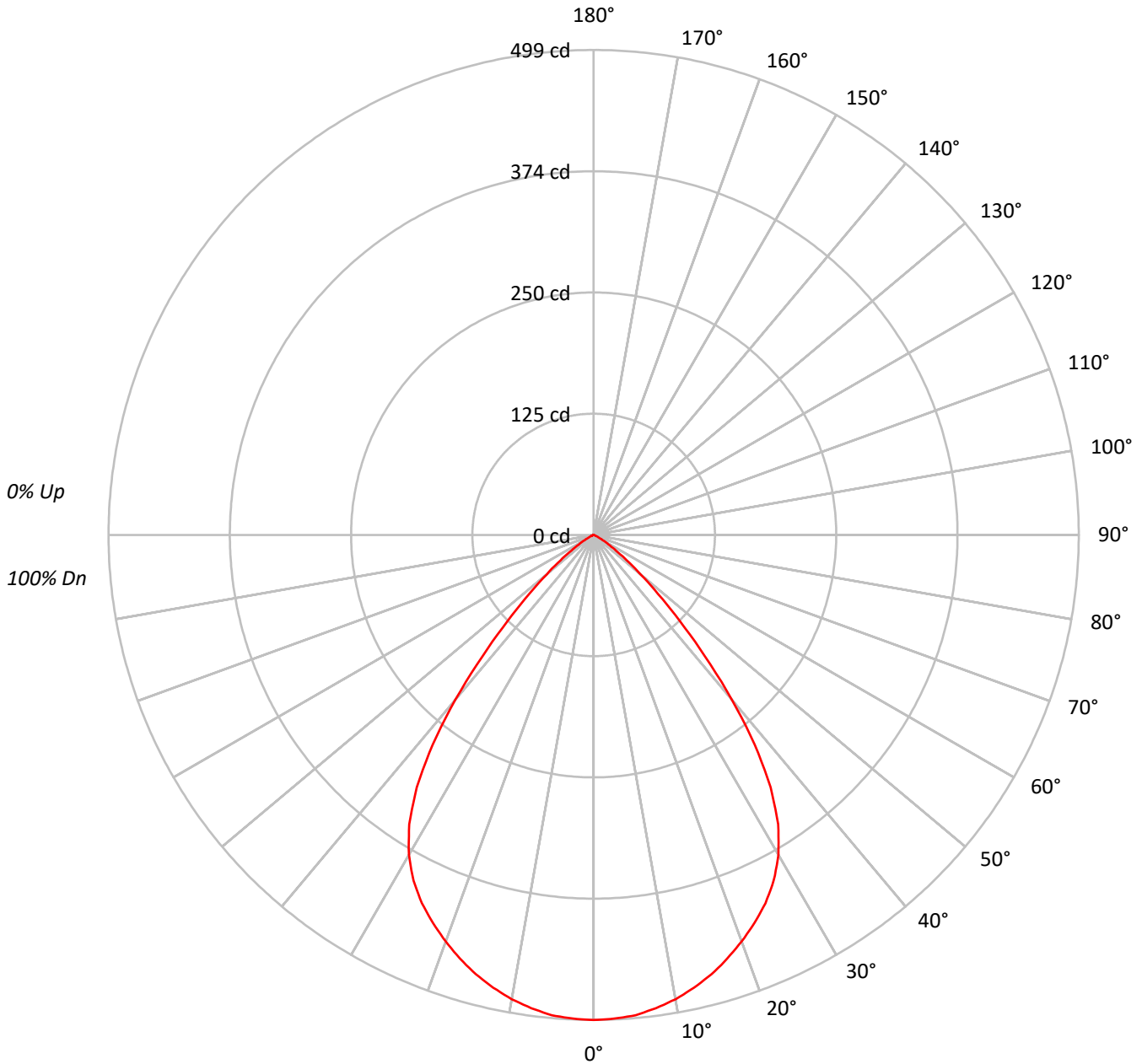
Lumens per Lamp: N/A  
Luminaire Lumens: 696.5 lumens  
Efficiency: N/A  
Efficacy: 66.3 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.11  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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			100																
1	113	110	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92			92																
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84			84																
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76			76																
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69			69																
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63			63																
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	59	58			58																
7	78	67	60	56	76	67	60	56	65	59	55	64	59	55	63	58	55	53			53																
8	73	63	56	51	72	62	55	51	61	55	51	60	54	51	59	54	50	49			49																
9	69	58	52	47	68	58	51	47	57	51	47	56	50	47	55	50	46	45			45																
10	65	54	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			42																

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

	0°
0°	27361
5°	27300
10°	27004
15°	26567
20°	25966
25°	25290
30°	24061
35°	21221
40°	15823
45°	9691
50°	5373
55°	2676
60°	1206
65°	389
70°	160
75°	212
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9691 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.0	6.7
10°-20°	131.8	18.9
20°-30°	191.7	27.5
30°-40°	193.2	27.7
40°-50°	100.2	14.4
50°-60°	27.8	4.0
60°-70°	4.2	0.6
70°-80°	0.7	0.1
80°-90°	0.0	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°	370.4	53.2
0°-40°	563.7	80.9
0°-60°	691.7	99.3
0°-90°	696.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	696.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	499	
5°	496	47
15°	468	132
25°	418	192
35°	317	193
45°	125	100
55°	28	28
65°	3	4
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	499.1
2.5°	498.1
5°	496.1
7.5°	491.1
10°	485.1
12.5°	477.1
15°	468.1
17.5°	457.1
20°	445.1
22.5°	432.1
25°	418.1
27.5°	401.1
30°	380.1
32.5°	353.1
35°	317.1
37.5°	272.1
40°	221.1
42.5°	169.0
45°	125.0
47.5°	90.0
50°	63.0
52.5°	43.0
55°	28.0
57.5°	18.0
60°	11.0
62.5°	6.0
65°	3.0
67.5°	2.0
70°	1.0
72.5°	1.0
75°	1.0
77.5°	0.0
80°	0.0
82.5°	0.0
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)