

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: P643462

Luminaire Tested: ML5615LSVWFL9FS1E - 593BB - 900LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643462  
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 - 3000K  
Description: ML56 RR, MILKY OPTIC, 5" BLACK BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

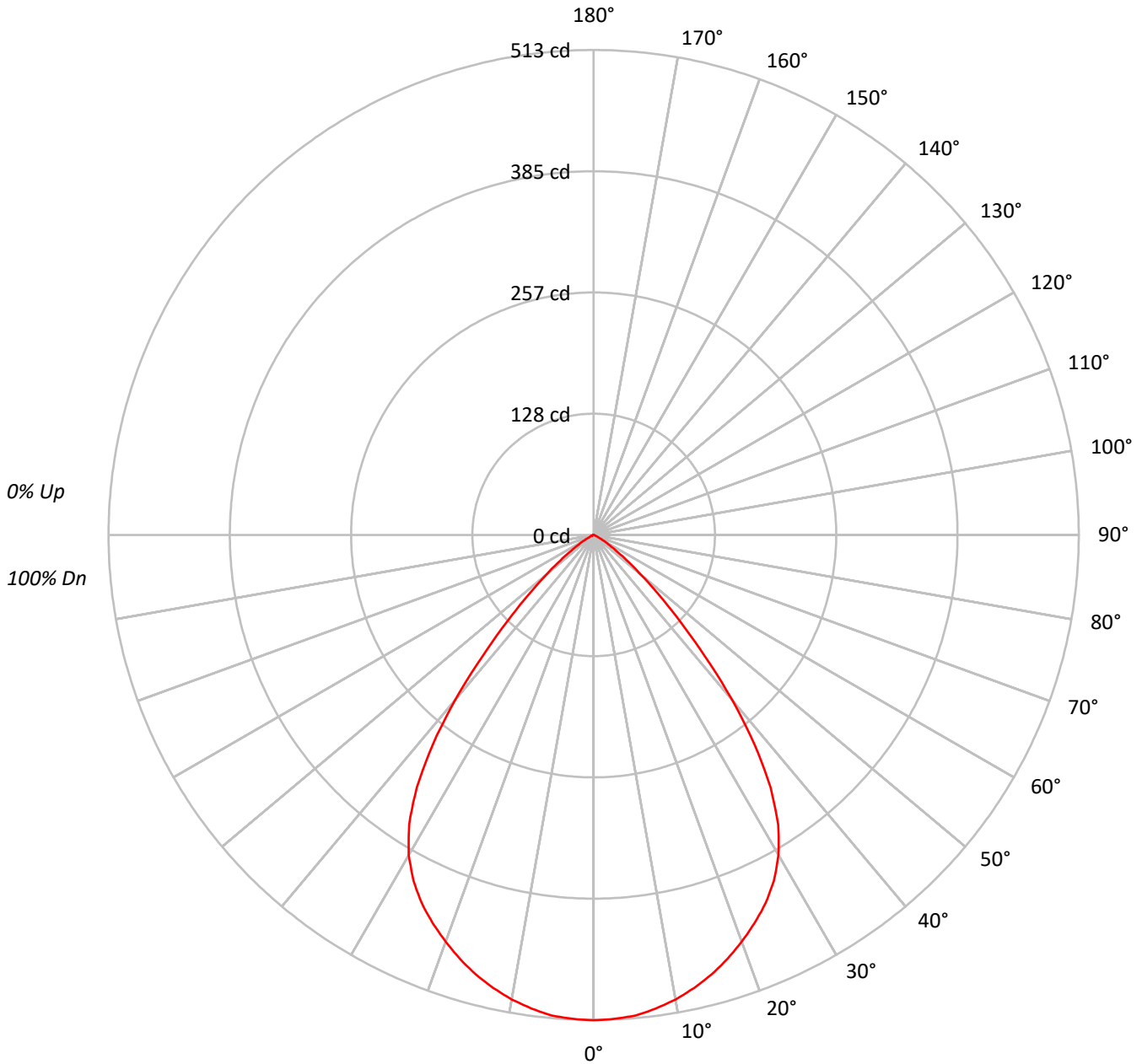
Lumens per Lamp: N/A  
Luminaire Lumens: 716.4 lumens  
Efficiency: N/A  
Efficacy: 68.2 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.11  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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	56	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°	28145
5°	28082
10°	27777
15°	27327
20°	26707
25°	26016
30°	24751
35°	21824
40°	16273
45°	9970
50°	5526
55°	2753
60°	1239
65°	402
70°	160
75°	212
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9970 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.3	6.7
10°-20°	135.5	18.9
20°-30°	197.2	27.5
30°-40°	198.7	27.7
40°-50°	103.1	14.4
50°-60°	28.6	4.0
60°-70°	4.3	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°	381.0	53.2
0°-40°	579.8	80.9
0°-60°	711.4	99.3
0°-90°	716.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	716.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	513	
5°	510	48
15°	482	136
25°	430	197
35°	326	199
45°	129	103
55°	29	29
65°	3	4
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	513.4
2.5°	512.4
5°	510.3
7.5°	505.2
10°	499.0
12.5°	490.8
15°	481.5
17.5°	470.2
20°	457.8
22.5°	444.5
25°	430.1
27.5°	412.6
30°	391.0
32.5°	363.2
35°	326.1
37.5°	279.8
40°	227.4
42.5°	173.9
45°	128.6
47.5°	92.6
50°	64.8
52.5°	44.2
55°	28.8
57.5°	18.5
60°	11.3
62.5°	6.2
65°	3.1
67.5°	2.1
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)