

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: P643478

Luminaire Tested: ML5615LSVWFL9FS1E - 593SNB - 900LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643478  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-99)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL9FS1E - 593SNB - 900LM - 3500K  
Description: ML56 RR, MILKY OPTIC, 5" SATIN NICKLE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 886.0 lumens  
Efficiency: N/A  
Efficacy: 84.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.14  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

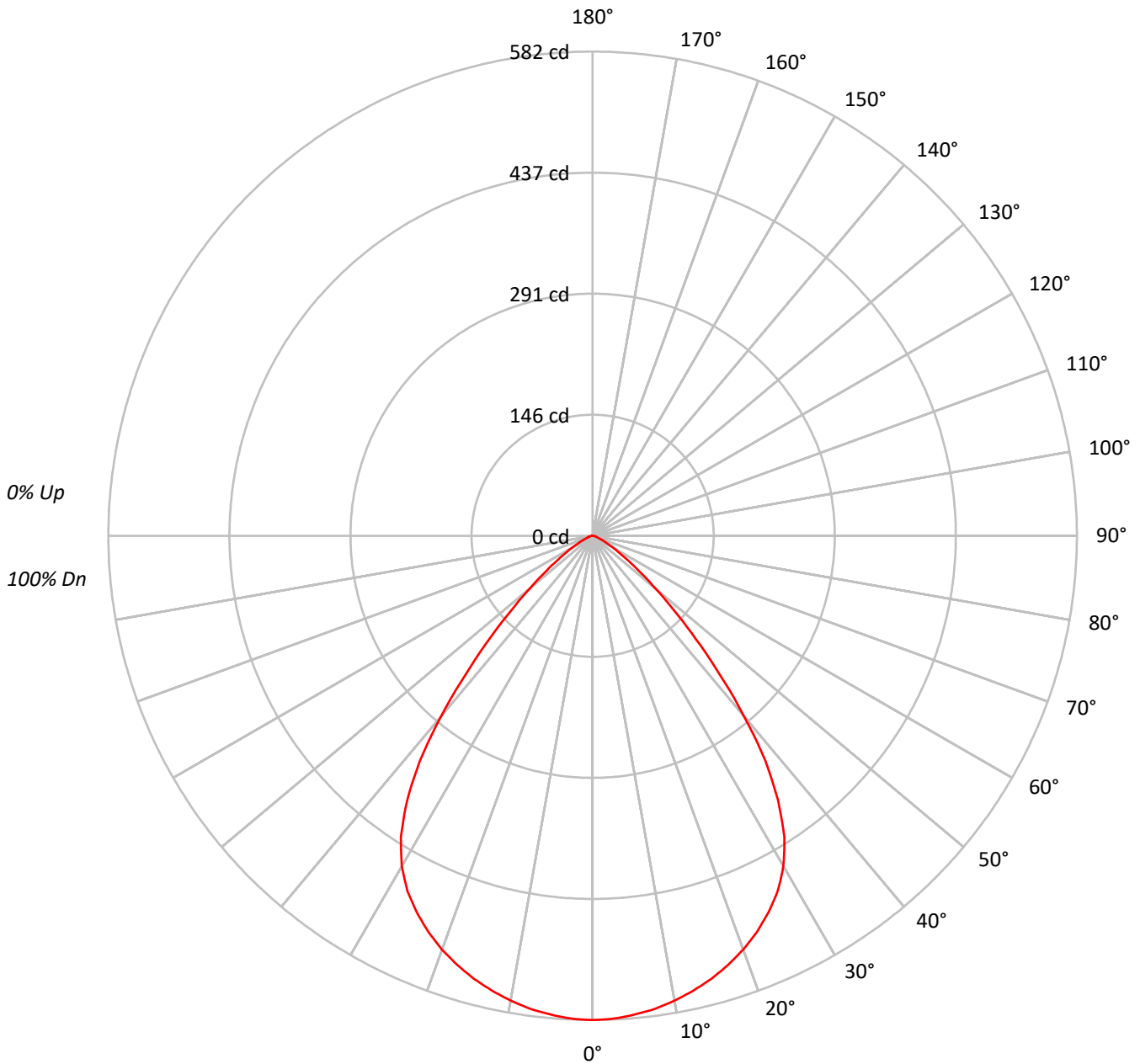
Input Watts (W): 10.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				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			
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82			
3	99	91	85	81	97	90	84	80	87	82	79	84	81	77	82	79	76	74			
4	93	84	77	72	91	82	76	72	80	75	71	78	73	70	76	72	69	67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55			
7	76	65	58	53	75	65	58	53	63	57	53	62	57	53	61	56	52	51			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			
9	68	56	50	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43			
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39			

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

	0°
0°	45952
5°	45786
10°	45474
15°	45064
20°	44457
25°	43525
30°	41794
35°	37459
40°	29173
45°	19582
50°	12060
55°	7267
60°	4342
65°	2559
70°	1454
75°	1281
80°	955
85°	996

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19582 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.8	6.2
10°-20°	155.4	17.5
20°-30°	229.4	25.9
30°-40°	238.1	26.9
40°-50°	138.2	15.6
50°-60°	50.2	5.7
60°-70°	14.5	1.6
70°-80°	4.5	0.5
80°-90°	0.9	0.1
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°	439.6	49.6
0°-40°	677.7	76.5
0°-60°	866.2	97.8
0°-90°	886.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	886.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	582	
5°	578	55
15°	551	155
25°	500	229
35°	389	238
45°	175	138
55°	53	50
65°	14	15
75°	4	4
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	582.1
2.5°	581.0
5°	577.8
7.5°	573.6
10°	567.3
12.5°	559.9
15°	551.4
17.5°	540.9
20°	529.2
22.5°	515.5
25°	499.7
27.5°	481.7
30°	458.5
32.5°	428.9
35°	388.7
37.5°	341.2
40°	283.1
42.5°	226.1
45°	175.4
47.5°	132.0
50°	98.2
52.5°	72.9
55°	52.8
57.5°	38.0
60°	27.5
62.5°	19.0
65°	13.7
67.5°	9.5
70°	6.3
72.5°	5.3
75°	4.2
77.5°	3.2
80°	2.1
82.5°	1.1
85°	1.1
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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Scaled Data Report



(END OF REPORT)