

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: P643569

Luminaire Tested: ML5615LSVWFL9FS1E - 596WB - 900LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643569  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-104)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL9FS1E - 596WB - 900LM - 4000K  
Description: ML56 RR, MILKY OPTIC, 5" SHALLOW WHITE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1157.3 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.24  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

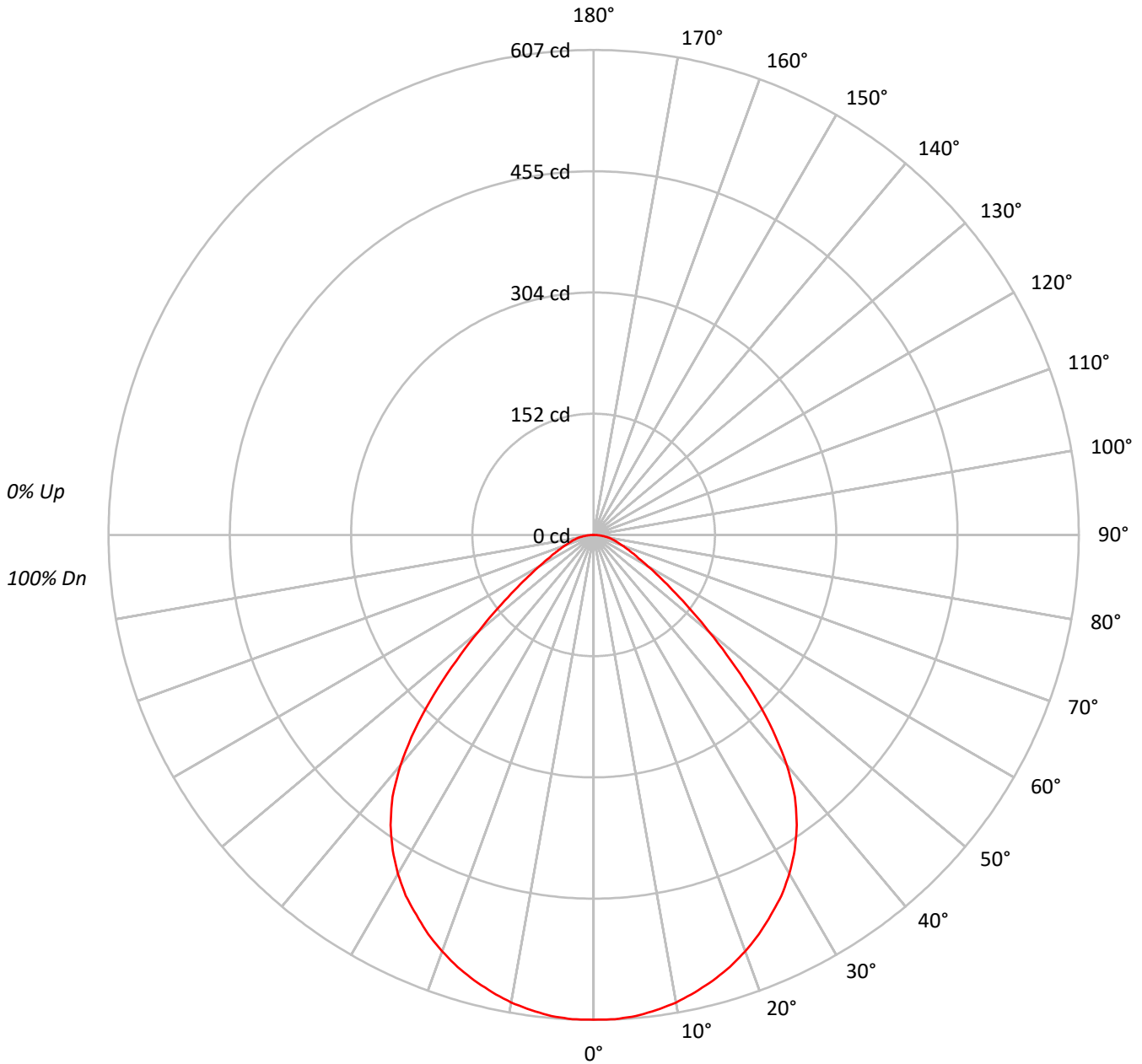
Input Watts (W): 10.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
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	107	104	101	109	105	102	99	101	98	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78																			
3	96	87	80	75	93	85	79	74	83	77	73	80	76	72	78	74	71	69																			
4	89	79	71	66	87	77	71	65	75	69	64	73	68	64	71	66	63	61																			
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54																			
6	77	65	58	52	75	64	57	52	63	56	51	61	55	51	60	55	51	49																			
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44																			
8	67	55	48	42	66	55	47	42	53	47	42	52	46	42	51	46	42	40																			
9	63	51	44	39	62	50	43	39	49	43	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33																			

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

	0°
0°	47901
5°	47902
10°	47638
15°	47172
20°	46582
25°	45720
30°	44638
35°	42701
40°	38757
45°	31583
50°	23162
55°	16571
60°	12378
65°	9975
70°	8655
75°	8327
80°	8274
85°	7246

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 31583 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.4	5.0
10°-20°	162.8	14.1
20°-30°	241.8	20.9
30°-40°	274.7	23.7
40°-50°	216.7	18.7
50°-60°	111.6	9.6
60°-70°	54.2	4.7
70°-80°	28.9	2.5
80°-90°	9.3	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°	461.9	39.9
0°-40°	736.6	63.6
0°-60°	1064.9	92.0
0°-90°	1157.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1157.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	607	
5°	604	57
15°	577	163
25°	525	242
35°	443	275
45°	283	217
55°	120	112
65°	53	54
75°	27	29
85°	8	9
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	606.8
2.5°	606.8
5°	604.5
7.5°	599.9
10°	594.3
12.5°	586.3
15°	577.2
17.5°	567.0
20°	554.5
22.5°	540.9
25°	524.9
27.5°	509.0
30°	489.7
32.5°	468.1
35°	443.1
37.5°	413.6
40°	376.1
42.5°	331.8
45°	282.9
47.5°	232.9
50°	188.6
52.5°	151.1
55°	120.4
57.5°	96.6
60°	78.4
62.5°	63.6
65°	53.4
67.5°	44.3
70°	37.5
72.5°	31.8
75°	27.3
77.5°	22.7
80°	18.2
82.5°	13.6
85°	8.0
87.5°	3.4
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)