

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: P643429

Luminaire Tested: ML5615LSVWFL9FS1E - 592SC - 1500LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643429  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-94)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL9FS1E - 592SC - 1500LM - 4000K  
Description: ML56 RR, MILKY OPTIC, 5" SPECULAR CLEAR TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1787.1 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.95  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

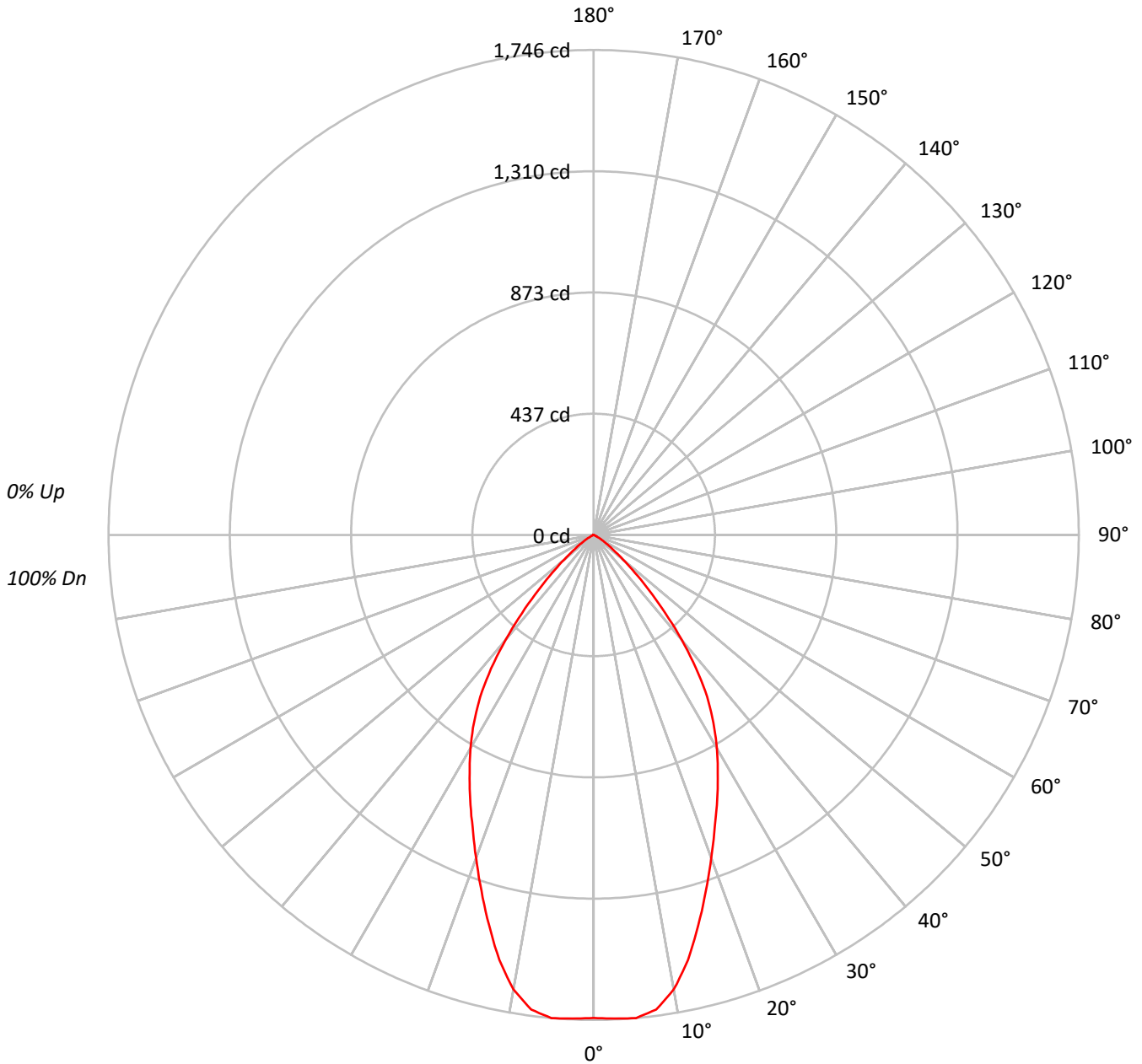
Input Watts (W): 17.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	100	100	100
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93	93	93	93
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85	85	85	85
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	79	78	78	78	78
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	79	76	73	71	71	71	71
5	90	81	74	69	88	80	74	69	78	73	69	76	71	68	74	70	67	66	66	66	66
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	65	62	61	61	61	61
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	65	61	58	56	56	56	56
8	76	65	59	54	74	65	59	54	64	58	54	63	57	54	62	57	54	52	52	52	52
9	72	61	55	51	70	61	55	50	60	54	50	59	54	50	58	53	50	48	48	48	48
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45	45	45	45

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

	0°
0°	137294
5°	138381
10°	133184
15°	118886
20°	103942
25°	91605
30°	80880
35°	68644
40°	50639
45°	31371
50°	16936
55°	8519
60°	3900
65°	1644
70°	808
75°	549
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 31371 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.0	9.2
10°-20°	405.8	22.7
20°-30°	483.5	27.1
30°-40°	436.5	24.4
40°-50°	224.5	12.6
50°-60°	60.9	3.4
60°-70°	9.9	0.6
70°-80°	1.9	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°	1053.4	58.9
0°-40°	1489.9	83.4
0°-60°	1775.3	99.3
0°-90°	1787.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1787.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1739	
5°	1746	164
15°	1455	406
25°	1052	484
35°	712	437
45°	281	224
55°	62	61
65°	9	10
75°	2	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1739.2
2.5°	1742.8
5°	1746.3
7.5°	1723.3
10°	1661.5
12.5°	1567.8
15°	1454.7
17.5°	1343.3
20°	1237.3
22.5°	1138.3
25°	1051.7
27.5°	966.8
30°	887.3
32.5°	802.4
35°	712.3
37.5°	606.3
40°	491.4
42.5°	381.8
45°	281.0
47.5°	201.5
50°	137.9
52.5°	91.9
55°	61.9
57.5°	40.7
60°	24.7
62.5°	14.1
65°	8.8
67.5°	3.5
70°	3.5
72.5°	1.8
75°	1.8
77.5°	1.8
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)