

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: P643413

Luminaire Tested: ML5615LSVWFL9FS1E - 592H - 1500LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643413  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-95)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL9FS1E - 592H - 1500LM - 3500K  
Description: ML56 RR, MILKY OPTIC, 5" HAZE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

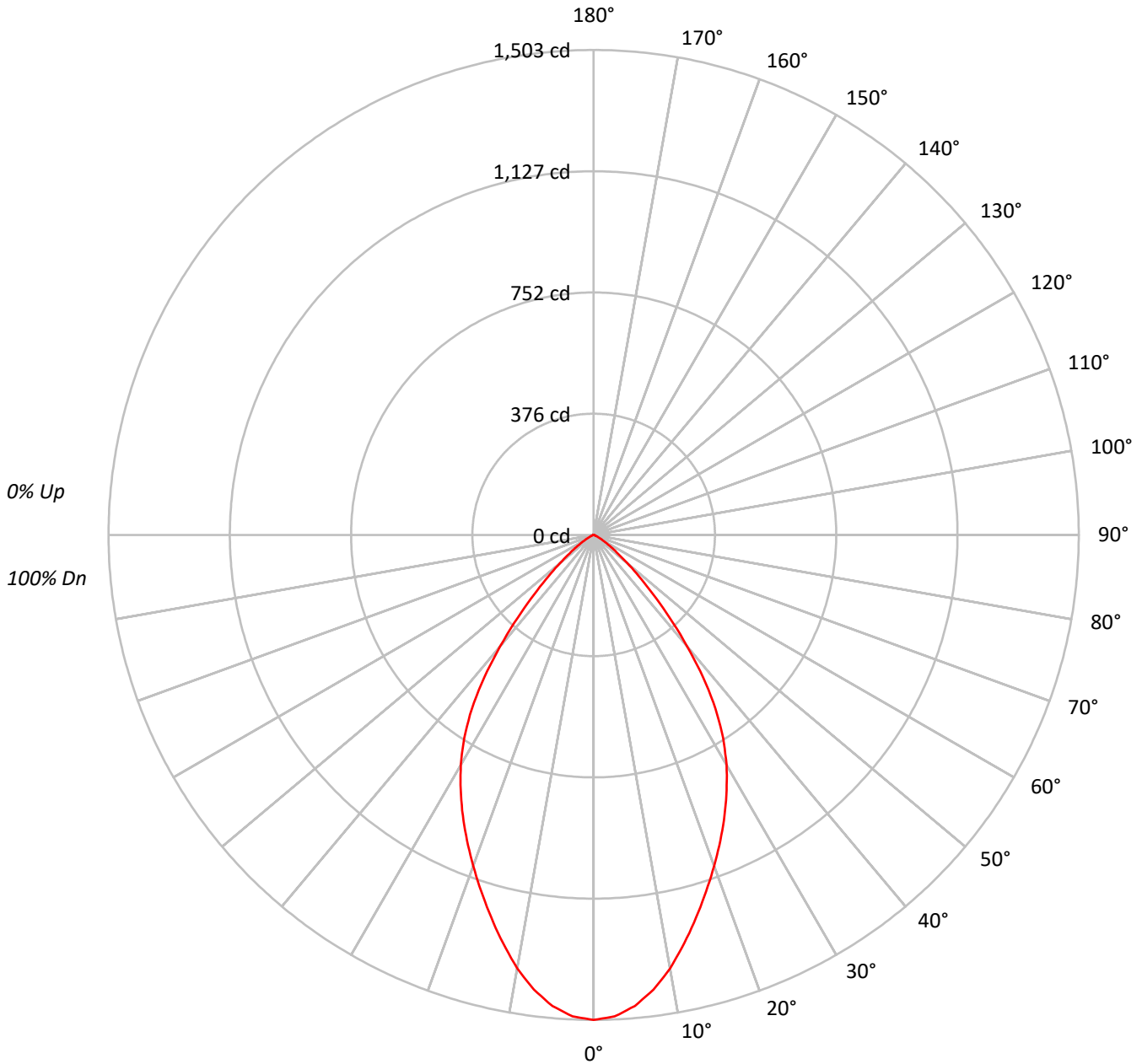
Lumens per Lamp: N/A  
Luminaire Lumens: 1610.6 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.97  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

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									
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	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92			92																
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84			84																
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77			77																
4	95	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	71			71																
5	89	80	73	68	87	79	73	68	77	72	68	75	71	67	74	70	66	65			65																
6	84	74	67	63	82	73	67	62	72	66	62	70	65	62	69	64	61	60			60																
7	79	69	62	58	78	68	62	57	67	61	57	66	61	57	64	60	56	55			55																
8	75	64	58	53	73	64	57	53	63	57	53	61	56	53	60	56	52	51			51																
9	71	60	54	49	70	60	53	49	59	53	49	58	53	49	57	52	49	47			47																
10	67	56	50	46	66	56	50	46	55	50	46	54	49	46	54	49	45	44			44																

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

	0°
0°	118664
5°	116122
10°	109304
15°	100294
20°	91643
25°	83565
30°	75028
35°	63488
40°	46383
45°	28982
50°	16543
55°	9042
60°	4673
65°	2148
70°	1131
75°	488
80°	727
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 28982 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.6	8.5
10°-20°	343.9	21.4
20°-30°	440.0	27.3
30°-40°	403.5	25.0
40°-50°	207.5	12.9
50°-60°	63.2	3.9
60°-70°	13.1	0.8
70°-80°	2.6	0.2
80°-90°	0.2	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°	920.5	57.2
0°-40°	1324.0	82.2
0°-60°	1594.8	99.0
0°-90°	1610.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1610.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1503	
5°	1465	137
15°	1227	344
25°	959	440
35°	659	403
45°	260	208
55°	66	63
65°	12	13
75°	2	3
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1503.2
2.5°	1493.4
5°	1465.4
7.5°	1421.1
10°	1363.6
12.5°	1296.2
15°	1227.2
17.5°	1158.2
20°	1090.9
22.5°	1025.1
25°	959.4
27.5°	892.1
30°	823.1
32.5°	745.9
35°	658.8
37.5°	556.9
40°	450.1
42.5°	348.3
45°	259.6
47.5°	188.9
50°	134.7
52.5°	93.6
55°	65.7
57.5°	44.4
60°	29.6
62.5°	18.1
65°	11.5
67.5°	6.6
70°	4.9
72.5°	3.3
75°	1.6
77.5°	1.6
80°	1.6
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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Scaled Data Report



(END OF REPORT)