

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: P641598

Luminaire Tested: ML5612LSVWFL97FS1E - 592H - 600LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641598  
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: ML5612LSVWFL97FS1E - 592H - 600LM - 3500K  
Description: ML56 RR, MILKY OPTIC, 5" HAZE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

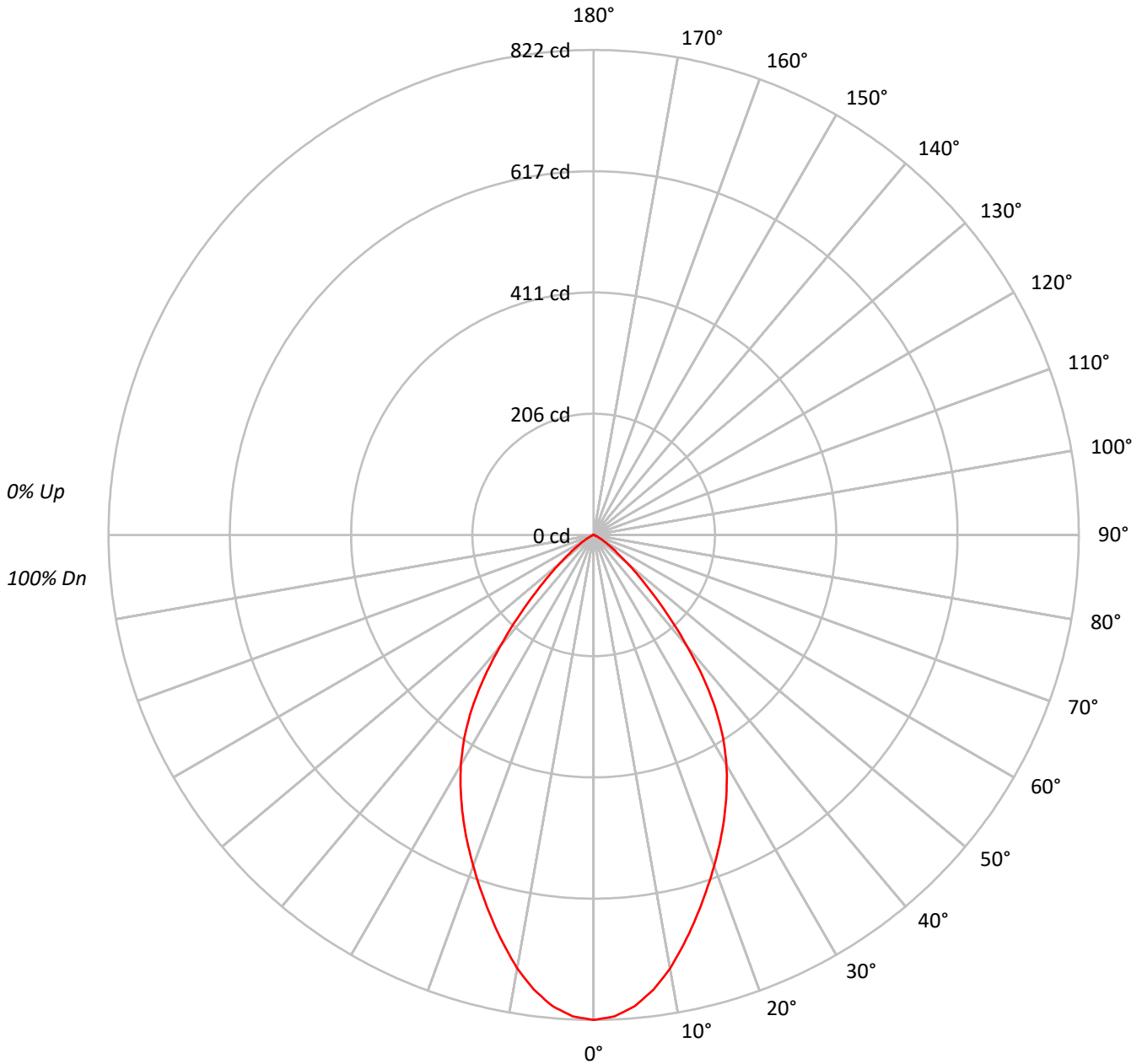
Lumens per Lamp: N/A  
Luminaire Lumens: 880.9 lumens  
Efficiency: N/A  
Efficacy: 85.5 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.97  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 10.3  
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°	64897
5°	63513
10°	59782
15°	54854
20°	50119
25°	45702
30°	41028
35°	34722
40°	25371
45°	15853
50°	9051
55°	4941
60°	2558
65°	1177
70°	623
75°	275
80°	409
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15853 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.7	8.5
10°-20°	188.1	21.4
20°-30°	240.6	27.3
30°-40°	220.7	25.0
40°-50°	113.5	12.9
50°-60°	34.6	3.9
60°-70°	7.2	0.8
70°-80°	1.4	0.2
80°-90°	0.1	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°	503.4	57.2
0°-40°	724.1	82.2
0°-60°	872.2	99.0
0°-90°	880.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	880.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	822	
5°	802	75
15°	671	188
25°	525	241
35°	360	221
45°	142	114
55°	36	35
65°	6	7
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	822.1
2.5°	816.7
5°	801.5
7.5°	777.2
10°	745.8
12.5°	708.9
15°	671.2
17.5°	633.4
20°	596.6
22.5°	560.7
25°	524.7
27.5°	487.9
30°	450.1
32.5°	407.9
35°	360.3
37.5°	304.6
40°	246.2
42.5°	190.5
45°	142.0
47.5°	103.3
50°	73.7
52.5°	51.2
55°	35.9
57.5°	24.3
60°	16.2
62.5°	9.9
65°	6.3
67.5°	3.6
70°	2.7
72.5°	1.8
75°	0.9
77.5°	0.9
80°	0.9
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)