

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: P641776

Luminaire Tested: ML5612LSVWFL97FS1E - 692H - 600LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641776  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-107)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL97FS1E - 692H - 600LM - 2700K  
Description: ML56 RR, MILKY OPTIC, 6" HAZE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

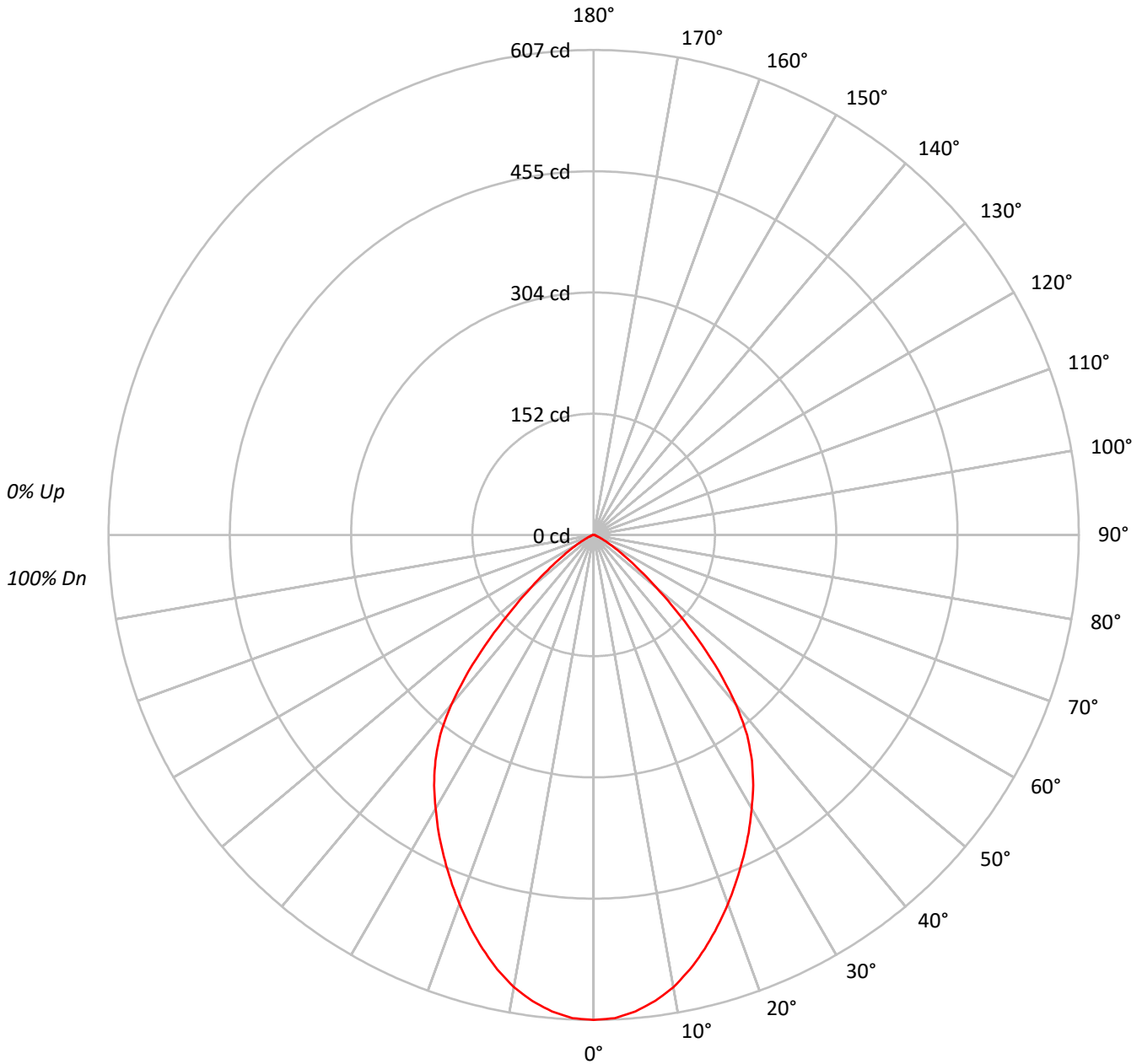
Lumens per Lamp: N/A  
Luminaire Lumens: 829.2 lumens  
Efficiency: N/A  
Efficacy: 80.5 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.1  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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																			
1	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91																			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83																			
3	99	91	86	81	97	90	85	80	87	83	79	85	81	78	82	79	76	75																			
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67																			
5	87	77	70	65	85	76	70	65	74	68	64	72	67	64	71	66	63	61																			
6	81	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	57	56																			
7	77	66	59	54	75	65	58	53	64	58	53	62	57	53	61	56	53	51																			
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	48	47																			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43																			
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40																			

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

	0°
0°	33281
5°	32941
10°	31997
15°	30449
20°	28667
25°	26844
30°	25029
35°	23102
40°	19837
45°	14242
50°	8631
55°	4874
60°	2609
65°	1219
70°	689
75°	551
80°	284
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14242 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.4	6.8
10°-20°	150.5	18.2
20°-30°	204.1	24.6
30°-40°	213.5	25.7
40°-50°	142.1	17.1
50°-60°	48.8	5.9
60°-70°	11.0	1.3
70°-80°	2.5	0.3
80°-90°	0.4	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°	411.0	49.6
0°-40°	624.5	75.3
0°-60°	815.4	98.3
0°-90°	829.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	829.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	607	
5°	599	56
15°	536	151
25°	444	204
35°	345	214
45°	184	142
55°	51	49
65°	9	11
75°	3	3
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	607.1
2.5°	605.4
5°	598.6
7.5°	588.4
10°	574.8
12.5°	556.9
15°	536.5
17.5°	514.4
20°	491.4
22.5°	467.6
25°	443.8
27.5°	420.0
30°	395.4
32.5°	371.6
35°	345.2
37.5°	315.4
40°	277.2
42.5°	232.1
45°	183.7
47.5°	138.6
50°	101.2
52.5°	72.3
55°	51.0
57.5°	34.9
60°	23.8
62.5°	15.3
65°	9.4
67.5°	6.0
70°	4.3
72.5°	2.6
75°	2.6
77.5°	1.7
80°	0.9
82.5°	0.9
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)