

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: P641641

Luminaire Tested: ML5612LSVWFL97FS1E - 593BB - 600LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641641  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-98)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL97FS1E - 593BB - 600LM - 2700K  
Description: ML56 RR, MILKY OPTIC, 5" BLACK BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

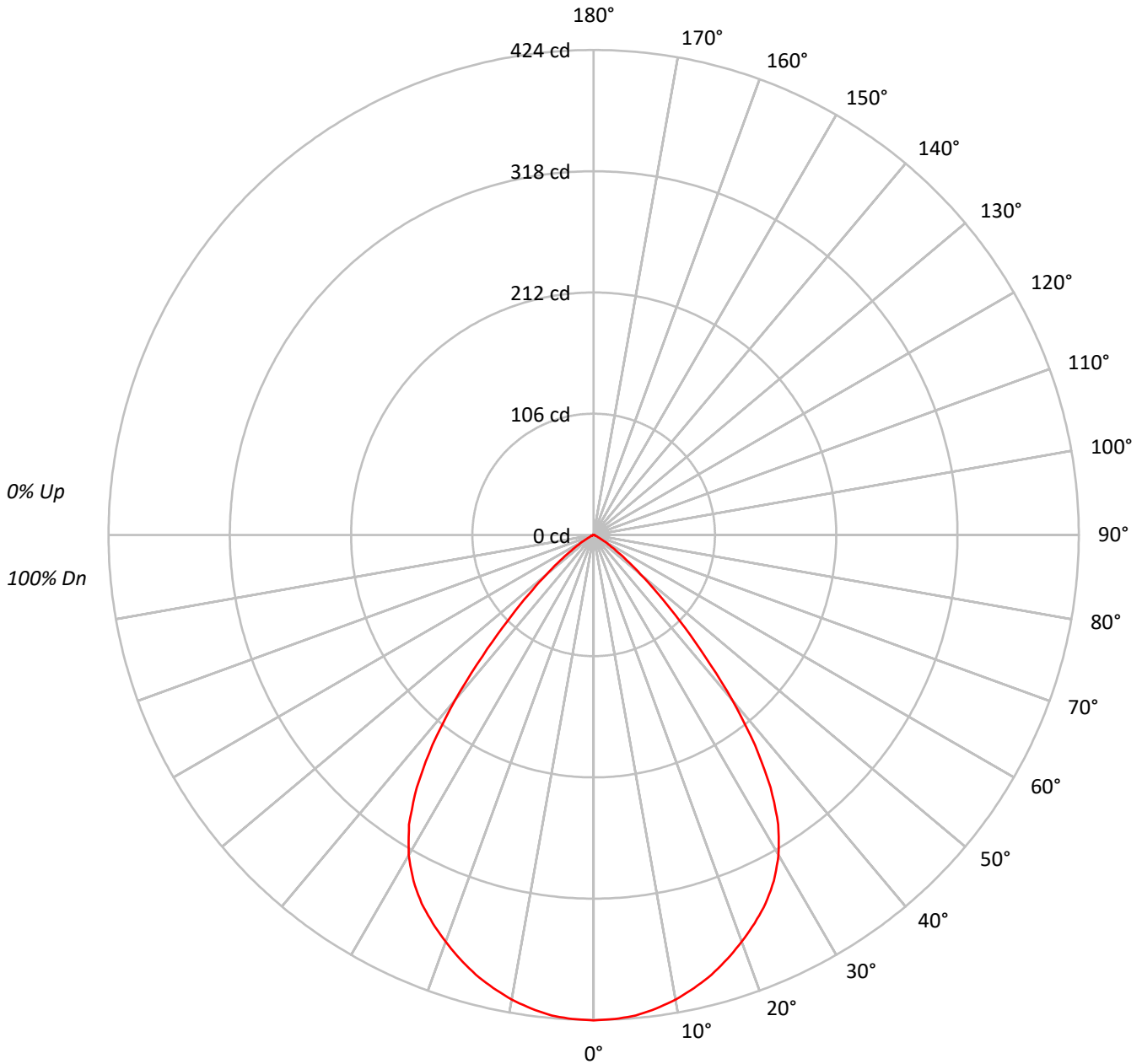
Lumens per Lamp: N/A  
Luminaire Lumens: 592.4 lumens  
Efficiency: N/A  
Efficacy: 57.5 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.11  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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	113	110	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92																			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84																			
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76																			
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69																			
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63																			
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	59	58																			
7	78	67	60	56	76	67	60	56	65	59	55	64	59	55	63	58	55	53																			
8	73	63	56	51	72	62	55	51	61	55	51	60	54	51	59	54	50	49																			
9	69	58	52	47	68	58	51	47	57	51	47	56	50	47	55	50	46	45																			
10	65	54	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42																			

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

	0°
0°	23271
5°	23217
10°	22968
15°	22594
20°	22081
25°	21509
30°	20459
35°	18042
40°	13454
45°	8241
50°	4571
55°	2275
60°	1031
65°	337
70°	144
75°	191
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 8241 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.0	6.7
10°-20°	112.0	18.9
20°-30°	163.0	27.5
30°-40°	164.3	27.7
40°-50°	85.2	14.4
50°-60°	23.7	4.0
60°-70°	3.6	0.6
70°-80°	0.6	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°	315.0	53.2
0°-40°	479.3	80.9
0°-60°	588.2	99.3
0°-90°	592.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	592.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	424	
5°	422	40
15°	398	112
25°	356	163
35°	270	164
45°	106	85
55°	24	24
65°	3	4
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	424.5
2.5°	423.6
5°	421.9
7.5°	417.7
10°	412.6
12.5°	405.7
15°	398.1
17.5°	388.7
20°	378.5
22.5°	367.5
25°	355.6
27.5°	341.1
30°	323.2
32.5°	300.3
35°	269.6
37.5°	231.4
40°	188.0
42.5°	143.8
45°	106.3
47.5°	76.6
50°	53.6
52.5°	36.6
55°	23.8
57.5°	15.3
60°	9.4
62.5°	5.1
65°	2.6
67.5°	1.7
70°	0.9
72.5°	0.9
75°	0.9
77.5°	0.0
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)