

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: P641582

Luminaire Tested: ML5612LSVWFL97FS1E - 591WB - 600LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641582  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-93)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL97FS1E - 591WB - 600LM - 3000K  
Description: ML56 RR, MILKY OPTIC, 5" DEADFRONT TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

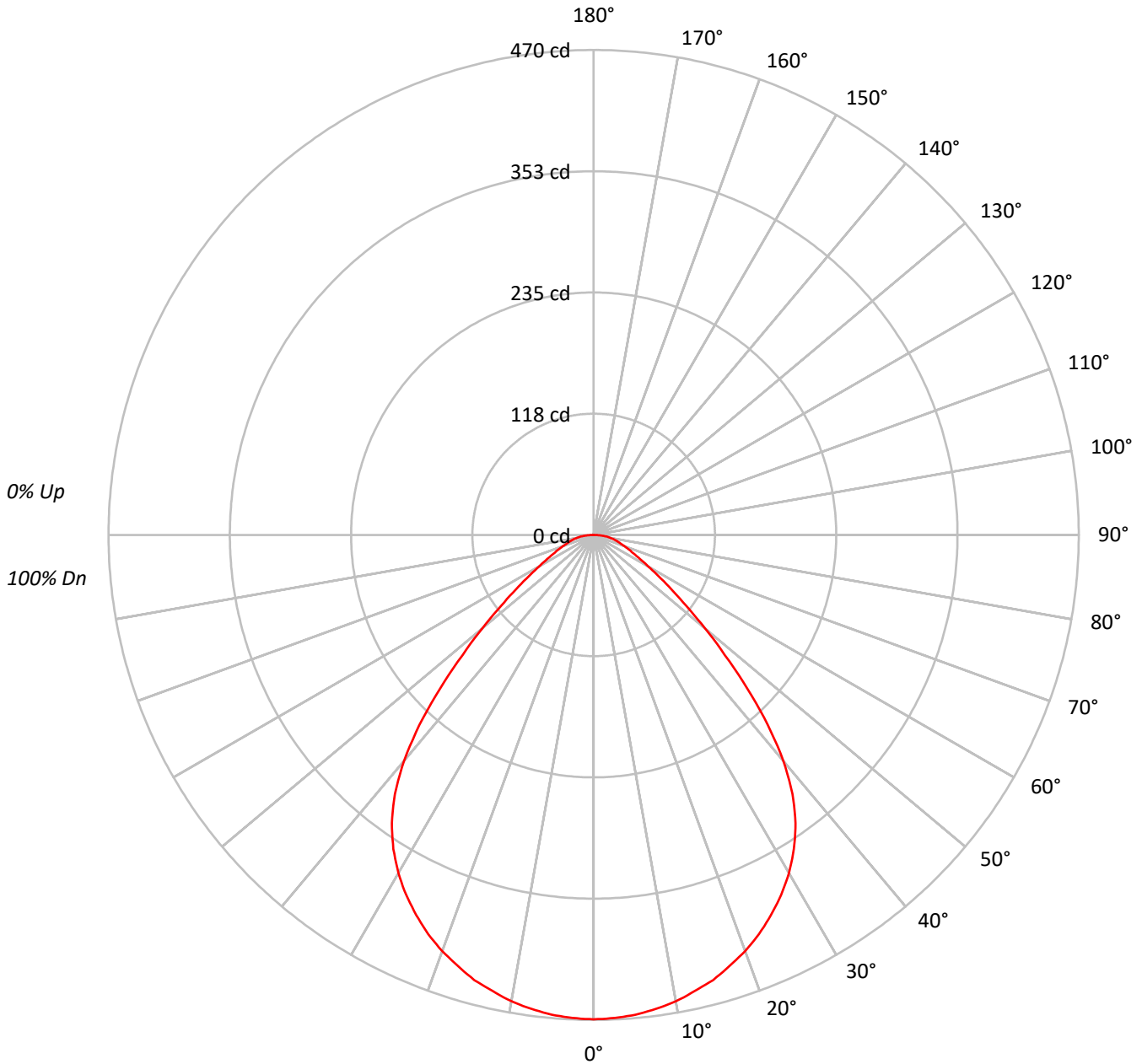
Lumens per Lamp: N/A  
Luminaire Lumens: 893.0 lumens  
Efficiency: N/A  
Efficacy: 86.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.23  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88															
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77				77															
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68				68															
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61				61															
5	82	71	64	58	81	70	63	58	68	62	57	66	61	56	65	60	56	54				54															
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49				49															
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	46	44				44															
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40				40															
9	63	51	44	39	62	50	43	38	49	43	38	48	42	38	47	42	38	36				36															
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33				33															

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

	0°
0°	37063
5°	36990
10°	36793
15°	36507
20°	36056
25°	35407
30°	34501
35°	32852
40°	29462
45°	23522
50°	17279
55°	12634
60°	9662
65°	7995
70°	7270
75°	7198
80°	7546
85°	7880

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 23522 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.3	5.0
10°-20°	125.8	14.1
20°-30°	187.1	20.9
30°-40°	211.0	23.6
40°-50°	162.3	18.2
50°-60°	84.5	9.5
60°-70°	43.6	4.9
70°-80°	25.0	2.8
80°-90°	9.4	1.1
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°	357.2	40.0
0°-40°	568.2	63.6
0°-60°	815.0	91.3
0°-90°	893.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	893.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	470	
5°	467	44
15°	447	126
25°	406	187
35°	341	211
45°	211	162
55°	92	85
65°	43	44
75°	24	25
85°	9	9
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	469.5
2.5°	468.6
5°	466.8
7.5°	463.3
10°	459.0
12.5°	452.8
15°	446.7
17.5°	438.0
20°	429.2
22.5°	418.8
25°	406.5
27.5°	393.4
30°	378.5
32.5°	361.1
35°	340.9
37.5°	316.5
40°	285.9
42.5°	250.0
45°	210.7
47.5°	172.2
50°	140.7
52.5°	112.8
55°	91.8
57.5°	74.3
60°	61.2
62.5°	50.7
65°	42.8
67.5°	36.7
70°	31.5
72.5°	27.1
75°	23.6
77.5°	20.1
80°	16.6
82.5°	13.1
85°	8.7
87.5°	4.4
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)