

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: P641629

Luminaire Tested: ML5612LSVWFL97FS1E - 592W - 600LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641629  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-96)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL97FS1E - 592W - 600LM - 4000K  
Description: ML56 RR, MILKY OPTIC, 5" WHITE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 942.5 lumens  
Efficiency: N/A  
Efficacy: 91.5 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

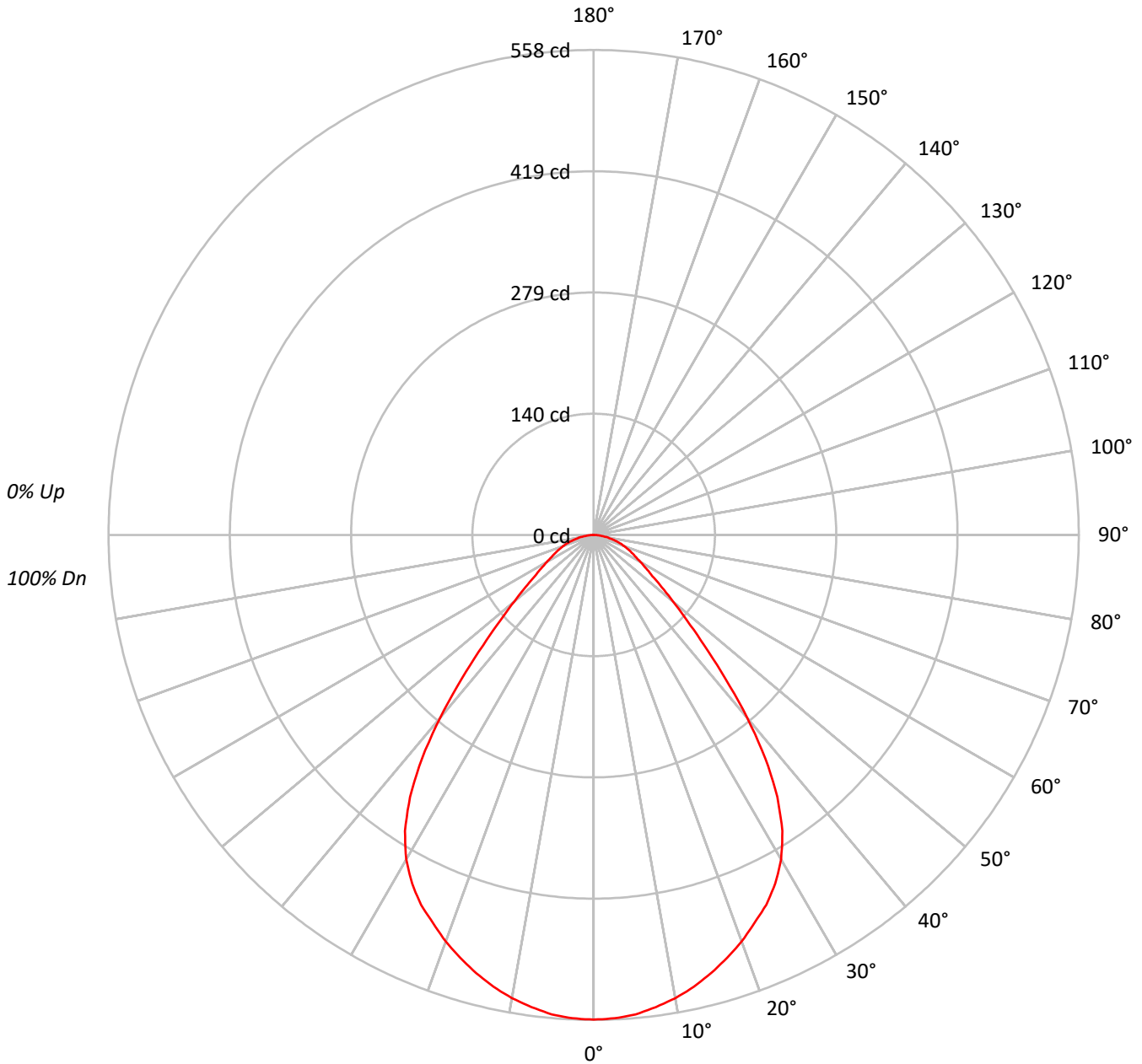
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78																			
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	70																			
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62																			
5	84	73	65	60	82	72	65	59	70	64	59	68	62	58	66	61	58	56																			
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50																			
7	73	61	54	49	72	61	54	48	59	53	48	58	52	48	57	52	48	46																			
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	44	42																			
9	65	53	45	41	63	52	45	41	51	45	40	50	44	40	49	44	40	38																			
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35																			

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

	0°
0°	30573
5°	30475
10°	30126
15°	29620
20°	29035
25°	28411
30°	27289
35°	24641
40°	19644
45°	13939
50°	10140
55°	7856
60°	6787
65°	6265
70°	5882
75°	5528
80°	4893
85°	3648

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13939 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.4	5.6
10°-20°	147.1	15.6
20°-30°	215.5	22.9
30°-40°	225.8	24.0
40°-50°	142.7	15.1
50°-60°	76.4	8.1
60°-70°	48.0	5.1
70°-80°	27.5	2.9
80°-90°	7.1	0.8
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°	415.0	44.0
0°-40°	640.7	68.0
0°-60°	859.8	91.2
0°-90°	942.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	942.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	558	
5°	554	52
15°	522	147
25°	470	215
35°	368	226
45°	180	143
55°	82	76
65°	48	48
75°	26	28
85°	6	7
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	557.7
2.5°	556.7
5°	553.8
7.5°	548.0
10°	541.2
12.5°	532.5
15°	521.9
17.5°	510.3
20°	497.7
22.5°	483.2
25°	469.7
27.5°	452.3
30°	431.1
32.5°	404.0
35°	368.2
37.5°	324.7
40°	274.5
42.5°	224.2
45°	179.8
47.5°	145.0
50°	118.9
52.5°	98.6
55°	82.2
57.5°	71.5
60°	61.9
62.5°	54.1
65°	48.3
67.5°	42.5
70°	36.7
72.5°	31.9
75°	26.1
77.5°	20.3
80°	15.5
82.5°	10.6
85°	5.8
87.5°	1.9
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)