

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: P641689

Luminaire Tested: ML5612LSVWFL97FS1E - 593WB - 600LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641689  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-97)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL97FS1E - 593WB - 600LM - 4000K  
Description: ML56 RR, MILKY OPTIC, 5" WHITE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 936.6 lumens  
Efficiency: N/A  
Efficacy: 90.9 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.14  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

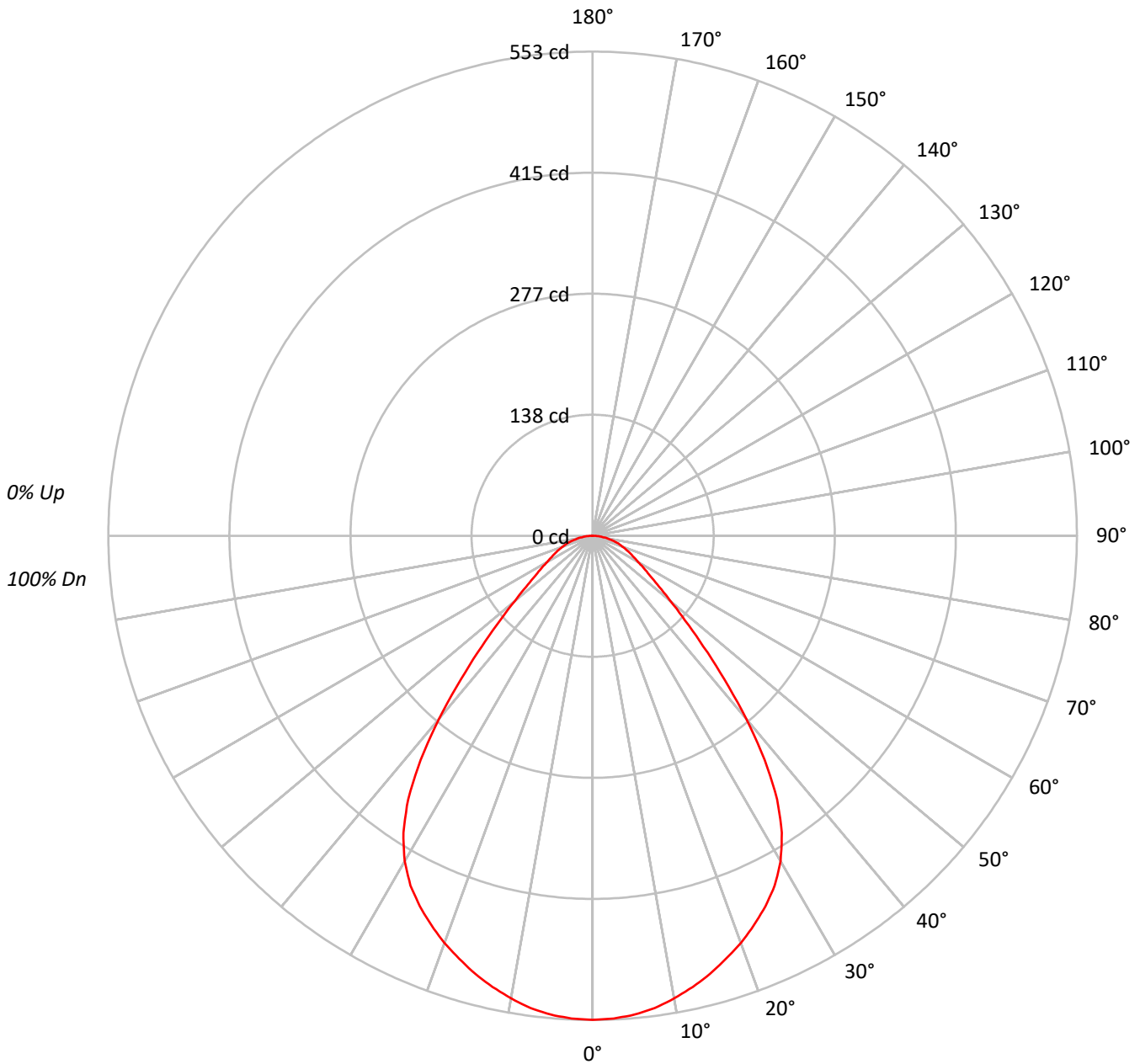
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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																			
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	87	84	88	85	82	86	83	80	78																			
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69																			
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62																			
5	84	73	65	60	82	72	65	59	70	63	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	51	48	46																			
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	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°	43646
5°	43504
10°	43005
15°	42342
20°	41575
25°	40668
30°	39123
35°	35396
40°	28091
45°	19961
50°	14246
55°	11038
60°	9457
65°	8854
70°	8471
75°	8266
80°	7910
85°	6974

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19961 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.0	5.6
10°-20°	146.0	15.6
20°-30°	214.4	22.9
30°-40°	224.7	24.0
40°-50°	141.3	15.1
50°-60°	74.3	7.9
60°-70°	47.1	5.0
70°-80°	28.3	3.0
80°-90°	8.4	0.9
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°	412.4	44.0
0°-40°	637.1	68.0
0°-60°	852.8	91.0
0°-90°	936.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	936.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	553	
5°	549	52
15°	518	146
25°	467	214
35°	367	225
45°	179	141
55°	80	74
65°	47	47
75°	27	28
85°	8	8
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	552.9
2.5°	551.9
5°	549.0
7.5°	544.2
10°	536.5
12.5°	527.8
15°	518.1
17.5°	506.5
20°	494.9
22.5°	481.4
25°	466.9
27.5°	450.4
30°	429.2
32.5°	402.1
35°	367.3
37.5°	322.8
40°	272.6
42.5°	222.3
45°	178.8
47.5°	143.1
50°	116.0
52.5°	95.7
55°	80.2
57.5°	69.6
60°	59.9
62.5°	53.2
65°	47.4
67.5°	41.6
70°	36.7
72.5°	31.9
75°	27.1
77.5°	21.3
80°	17.4
82.5°	11.6
85°	7.7
87.5°	2.9
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)