

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: P641599

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

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641599  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-95)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL97FS1E - 592H - 600LM - 4000K  
Description: ML56 RR, MILKY OPTIC, 5" HAZE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 947.8 lumens  
Efficiency: N/A  
Efficacy: 92.0 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.97  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

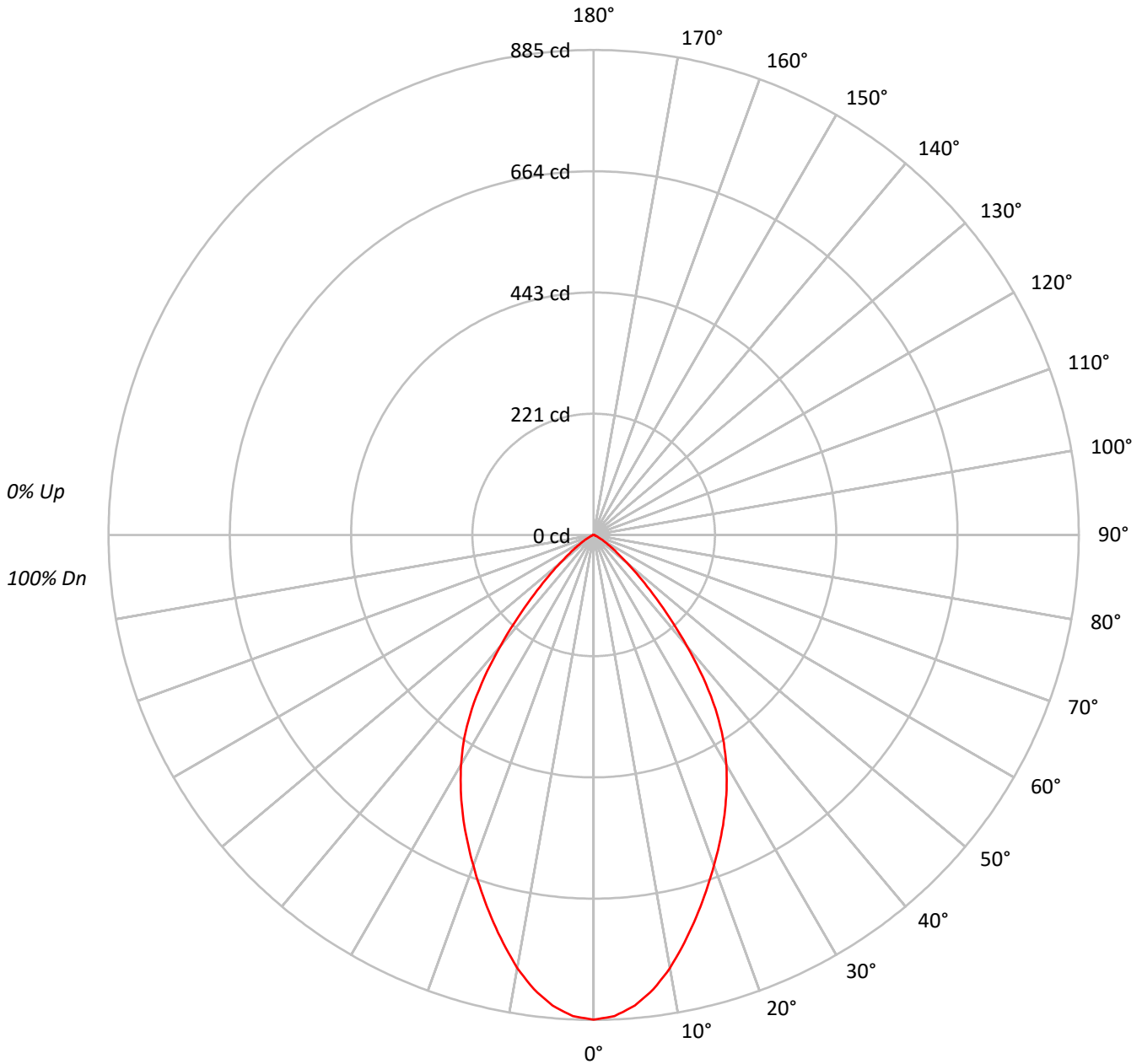
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				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	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92	92
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84	84	84	84
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77	77	77	77
4	95	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	71	71	71	71
5	89	80	73	68	87	79	73	68	77	72	68	75	71	67	74	70	66	65	65	65	65
6	84	74	67	63	82	73	67	62	72	66	62	70	65	62	69	64	61	60	60	60	60
7	79	69	62	58	78	68	62	57	67	61	57	66	61	57	64	60	56	55	55	55	55
8	75	64	58	53	73	64	57	53	63	57	53	61	56	53	60	56	52	51	51	51	51
9	71	60	54	49	70	60	53	49	59	53	49	58	53	49	57	52	49	47	47	47	47
10	67	56	50	46	66	56	50	46	55	50	46	54	49	46	54	49	45	44	44	44	44

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

	0°
0°	69831
5°	68331
10°	64319
15°	59022
20°	53924
25°	49178
30°	44145
35°	37362
40°	27298
45°	17047
50°	9739
55°	5326
60°	2747
65°	1270
70°	669
75°	305
80°	455
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17047 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.4	8.5
10°-20°	202.4	21.4
20°-30°	258.9	27.3
30°-40°	237.4	25.0
40°-50°	122.1	12.9
50°-60°	37.2	3.9
60°-70°	7.7	0.8
70°-80°	1.5	0.2
80°-90°	0.1	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°	541.7	57.2
0°-40°	779.1	82.2
0°-60°	938.4	99.0
0°-90°	947.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	947.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	885	
5°	862	80
15°	722	202
25°	565	259
35°	388	237
45°	153	122
55°	39	37
65°	7	8
75°	1	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	884.6
2.5°	878.8
5°	862.3
7.5°	836.2
10°	802.4
12.5°	762.8
15°	722.2
17.5°	681.6
20°	641.9
22.5°	603.2
25°	564.6
27.5°	524.9
30°	484.3
32.5°	438.9
35°	387.7
37.5°	327.7
40°	264.9
42.5°	204.9
45°	152.7
47.5°	111.2
50°	79.3
52.5°	55.1
55°	38.7
57.5°	26.1
60°	17.4
62.5°	10.6
65°	6.8
67.5°	3.9
70°	2.9
72.5°	1.9
75°	1.0
77.5°	1.0
80°	1.0
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)