

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: P641289

Luminaire Tested: ML5612LSVWFL7597FS1E - 592W - 900LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641289  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-73)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL7597FS1E - 592W - 900LM - 4000K  
Description: ML56 RR, 75D TIR OPTIC, 5" WHITE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1337.0 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

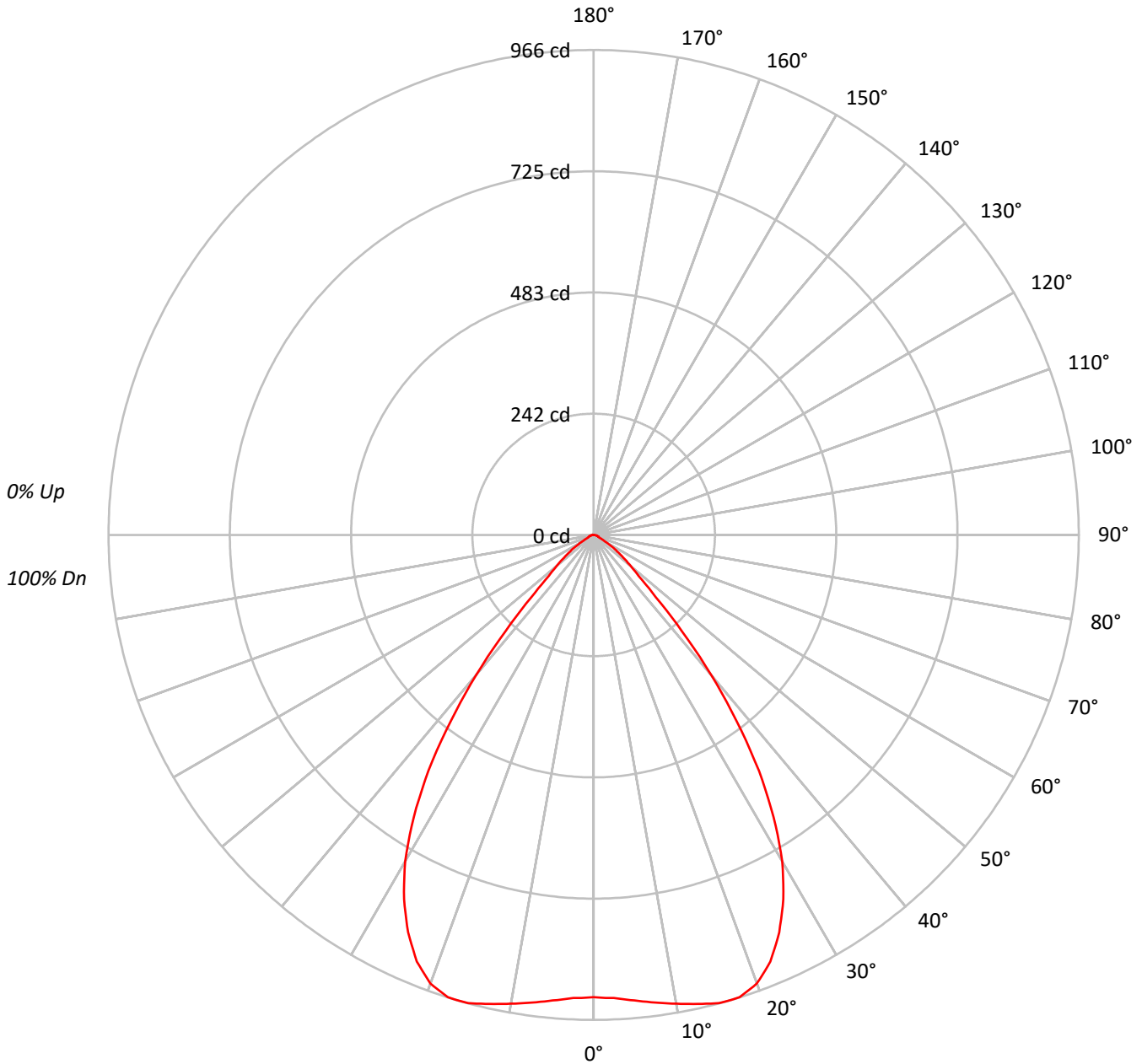
Input Watts (W): 13.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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

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

	0°
0°	72705
5°	73767
10°	76015
15°	78922
20°	79874
25°	76118
30°	68474
35°	55306
40°	37551
45°	19515
50°	11876
55°	7845
60°	4105
65°	2316
70°	2285
75°	2257
80°	2273
85°	2264

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19515 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.4	6.7
10°-20°	272.1	20.4
20°-30°	398.0	29.8
30°-40°	351.1	26.3
40°-50°	149.3	11.2
50°-60°	51.8	3.9
60°-70°	14.8	1.1
70°-80°	7.8	0.6
80°-90°	2.7	0.2
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°	759.5	56.8
0°-40°	1110.6	83.1
0°-60°	1311.7	98.1
0°-90°	1337.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1337.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	921	
5°	931	89
15°	966	272
25°	874	398
35°	574	351
45°	175	149
55°	57	52
65°	12	15
75°	7	8
85°	2	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	921.0
2.5°	923.5
5°	930.9
7.5°	939.6
10°	948.3
12.5°	957.0
15°	965.7
17.5°	965.7
20°	950.8
22.5°	919.8
25°	873.9
27.5°	818.1
30°	751.2
32.5°	666.9
35°	573.9
37.5°	467.3
40°	364.4
42.5°	259.1
45°	174.8
47.5°	121.5
50°	96.7
52.5°	74.4
55°	57.0
57.5°	40.9
60°	26.0
62.5°	18.6
65°	12.4
67.5°	11.2
70°	9.9
72.5°	8.7
75°	7.4
77.5°	6.2
80°	5.0
82.5°	3.7
85°	2.5
87.5°	1.2
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)