

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: P641404

Luminaire Tested: ML5612LSVWFL7597FS1E - 596WB - 600LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641404  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-81)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL7597FS1E - 596WB - 600LM - 4000K  
Description: ML56 RR, 75D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1058.6 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.1  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

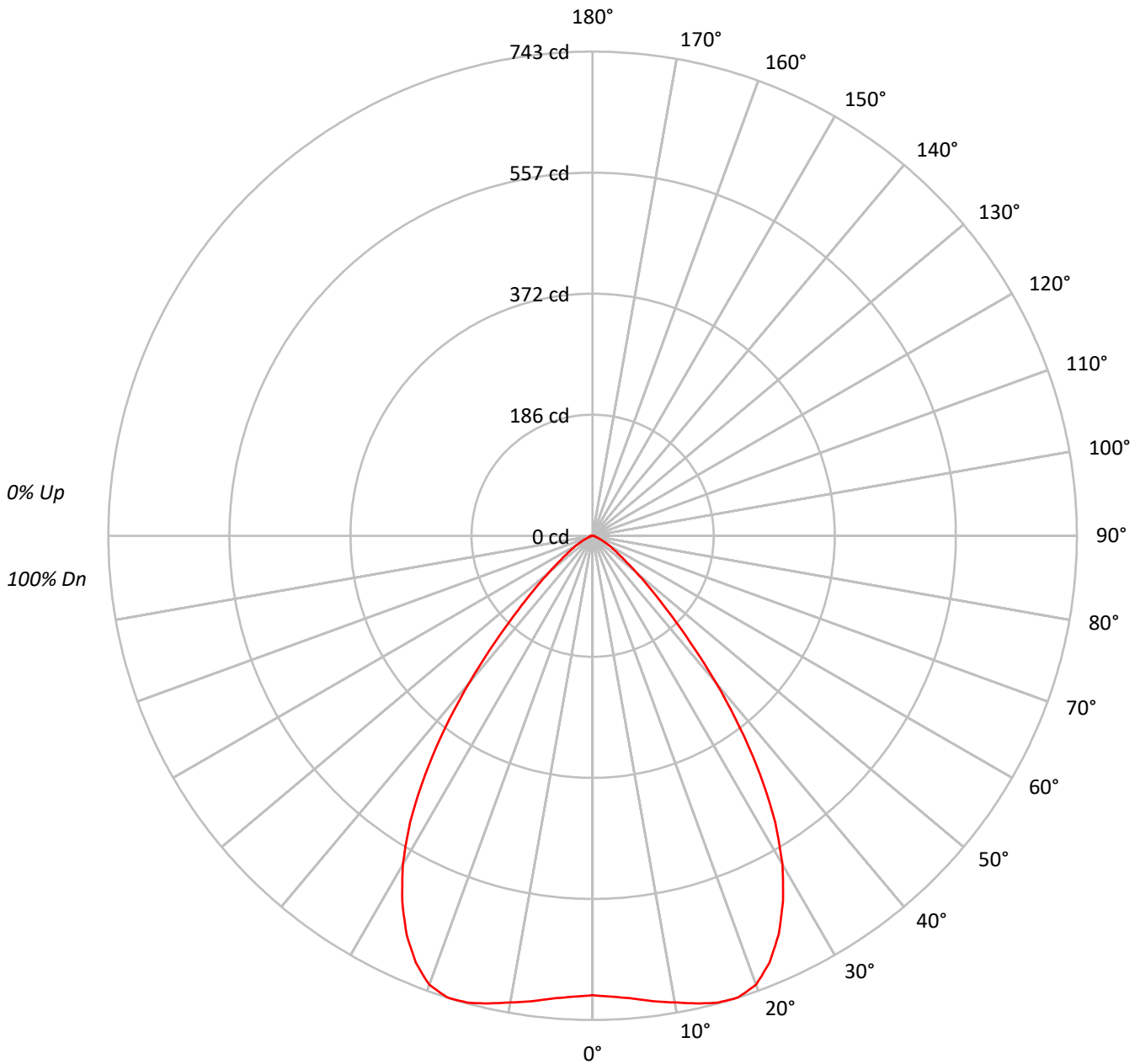
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92			92																
2	106	101	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83			83																
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			76																
4	94	85	79	74	92	84	78	73	82	77	73	80	75	72	78	74	71	69			69																
5	88	78	72	67	86	77	71	67	76	70	66	74	69	65	72	68	65	63			63																
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	59	58			58																
7	78	67	61	56	76	67	60	56	65	60	55	64	59	55	63	58	55	53			53																
8	73	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	50	49			49																
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45			45																
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42			42																

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

	0°
0°	55661
5°	56484
10°	58299
15°	60624
20°	61586
25°	58802
30°	53069
35°	43250
40°	30297
45°	18030
50°	10684
55°	6524
60°	4421
65°	2522
70°	1339
75°	1190
80°	1318
85°	906

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18030 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.5	6.5
10°-20°	209.2	19.8
20°-30°	307.4	29.0
30°-40°	275.9	26.1
40°-50°	131.9	12.5
50°-60°	45.4	4.3
60°-70°	14.6	1.4
70°-80°	4.2	0.4
80°-90°	1.5	0.1
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°	585.1	55.3
0°-40°	861.0	81.3
0°-60°	1038.3	98.1
0°-90°	1058.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1058.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	705	
5°	713	69
15°	742	209
25°	675	307
35°	449	276
45°	162	132
55°	47	45
65°	14	15
75°	4	4
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	705.1
2.5°	708.0
5°	712.8
7.5°	720.5
10°	727.3
12.5°	735.1
15°	741.8
17.5°	742.8
20°	733.1
22.5°	708.9
25°	675.1
27.5°	632.5
30°	582.2
32.5°	521.3
35°	448.8
37.5°	371.4
40°	294.0
42.5°	221.5
45°	161.5
47.5°	119.0
50°	87.0
52.5°	62.9
55°	47.4
57.5°	36.8
60°	28.0
62.5°	20.3
65°	13.5
67.5°	8.7
70°	5.8
72.5°	4.8
75°	3.9
77.5°	2.9
80°	2.9
82.5°	1.9
85°	1.0
87.5°	1.0
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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Scaled Data Report



(END OF REPORT)