

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: P641342

Luminaire Tested: ML5612LSVWFL7597FS1E - 593WB - 600LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641342  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-74)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL7597FS1E - 593WB - 600LM - 3000K  
Description: ML56 RR, 75D TIR OPTIC, 5" WHITE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 941.1 lumens  
Efficiency: N/A  
Efficacy: 91.4 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

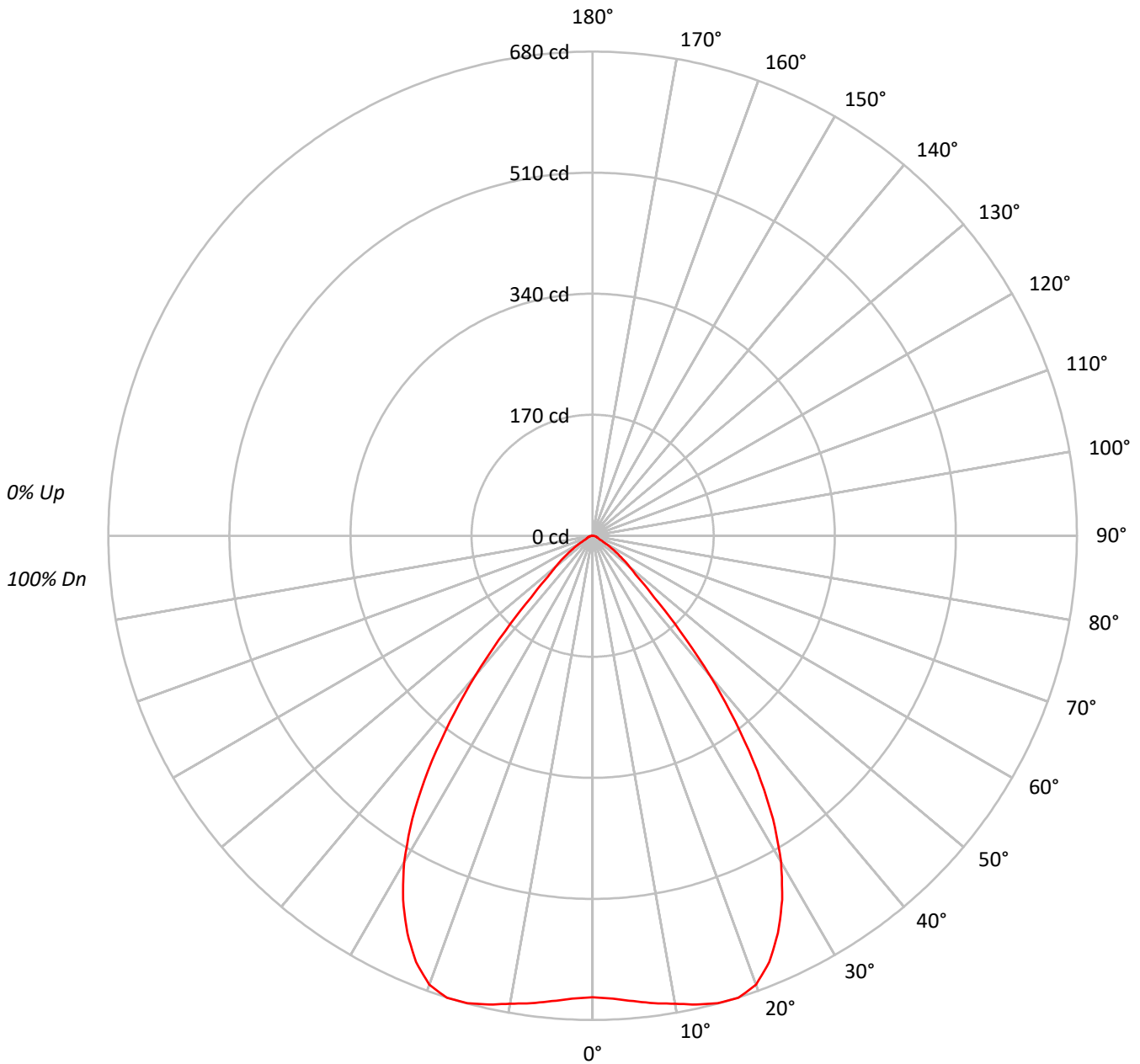
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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

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

	0°
0°	51162
5°	51983
10°	53490
15°	55541
20°	56352
25°	53628
30°	48229
35°	38856
40°	26412
45°	13665
50°	8376
55°	5533
60°	2763
65°	1625
70°	1616
75°	1586
80°	1591
85°	1540

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13665 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.0	6.7
10°-20°	191.7	20.4
20°-30°	280.4	29.8
30°-40°	247.3	26.3
40°-50°	104.7	11.1
50°-60°	36.5	3.9
60°-70°	10.1	1.1
70°-80°	5.5	0.6
80°-90°	1.9	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°	535.1	56.9
0°-40°	782.4	83.1
0°-60°	923.6	98.1
0°-90°	941.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	941.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	648	
5°	656	63
15°	680	192
25°	616	280
35°	403	247
45°	122	105
55°	40	36
65°	9	10
75°	5	6
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	648.1
2.5°	650.7
5°	656.0
7.5°	662.1
10°	667.3
12.5°	674.3
15°	679.6
17.5°	680.4
20°	670.8
22.5°	648.1
25°	615.7
27.5°	576.4
30°	529.1
32.5°	471.4
35°	403.2
37.5°	328.9
40°	256.3
42.5°	181.9
45°	122.4
47.5°	84.8
50°	68.2
52.5°	52.5
55°	40.2
57.5°	28.9
60°	17.5
62.5°	12.2
65°	8.7
67.5°	7.9
70°	7.0
72.5°	6.1
75°	5.2
77.5°	4.4
80°	3.5
82.5°	2.6
85°	1.7
87.5°	0.9
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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(END OF REPORT)