

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P641403

Luminaire Tested: ML5612LSVWFL7597FS1E - 596WB - 600LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641403  
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 - 3500K  
Description: ML56 RR, 75D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 983.9 lumens  
Efficiency: N/A  
Efficacy: 95.5 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

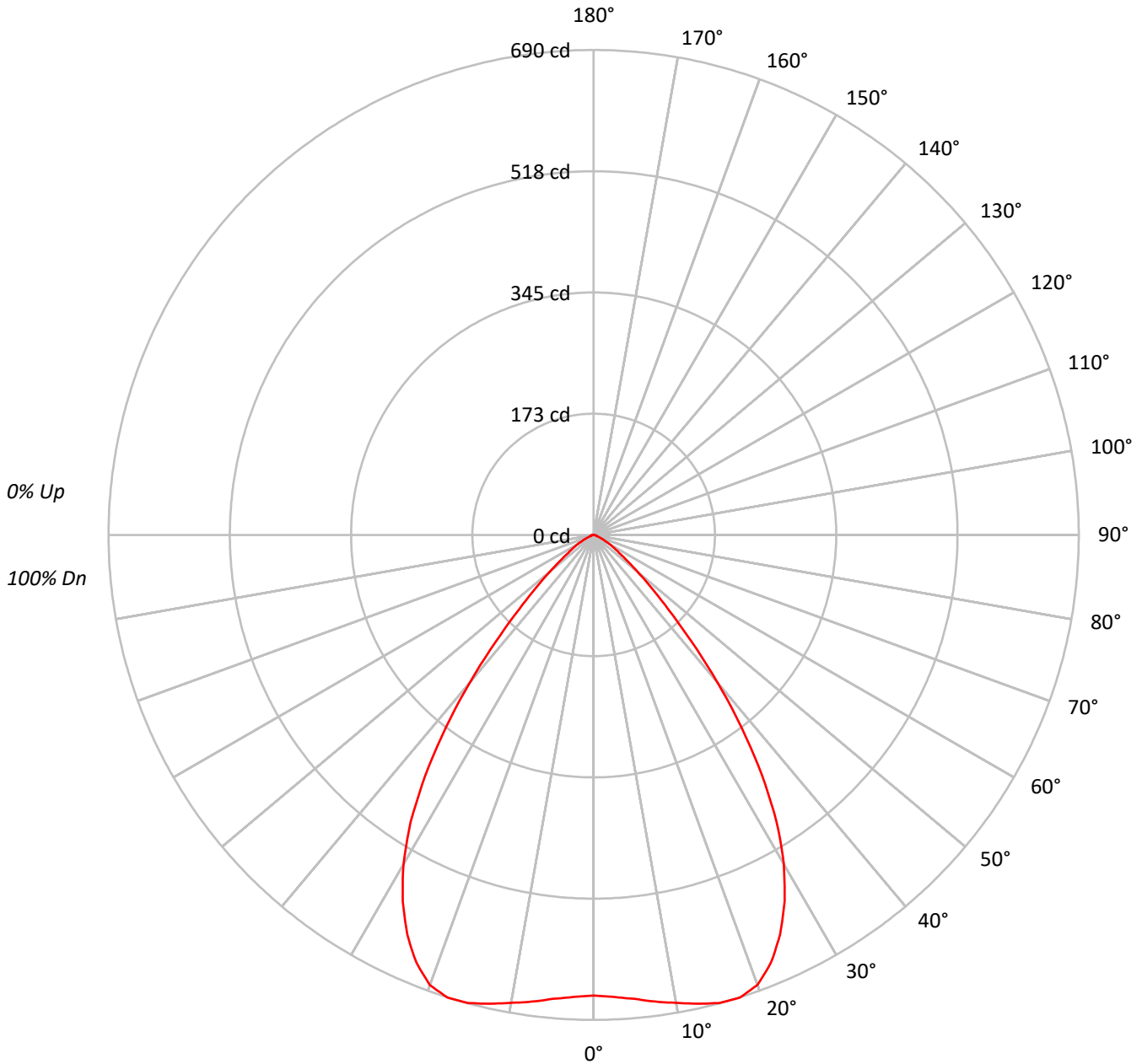
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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

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

	0°
0°	51730
5°	52498
10°	54187
15°	56350
20°	57242
25°	54648
30°	49323
35°	40196
40°	28164
45°	16757
50°	9935
55°	6056
60°	4121
65°	2354
70°	1246
75°	1098
80°	1227
85°	815

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16757 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.7	6.5
10°-20°	194.4	19.8
20°-30°	285.7	29.0
30°-40°	256.4	26.1
40°-50°	122.6	12.5
50°-60°	42.2	4.3
60°-70°	13.6	1.4
70°-80°	3.9	0.4
80°-90°	1.3	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°	543.8	55.3
0°-40°	800.3	81.3
0°-60°	965.0	98.1
0°-90°	983.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	983.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	655	
5°	662	64
15°	690	194
25°	627	286
35°	417	256
45°	150	123
55°	44	42
65°	13	14
75°	4	4
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	655.3
2.5°	658.0
5°	662.5
7.5°	669.7
10°	676.0
12.5°	683.2
15°	689.5
17.5°	690.4
20°	681.4
22.5°	658.9
25°	627.4
27.5°	587.9
30°	541.1
32.5°	484.5
35°	417.1
37.5°	345.2
40°	273.3
42.5°	205.8
45°	150.1
47.5°	110.6
50°	80.9
52.5°	58.4
55°	44.0
57.5°	34.2
60°	26.1
62.5°	18.9
65°	12.6
67.5°	8.1
70°	5.4
72.5°	4.5
75°	3.6
77.5°	2.7
80°	2.7
82.5°	1.8
85°	0.9
87.5°	0.9
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)