

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: P641419

Luminaire Tested: ML5612LSVWFL7597FS1E - 691WB - 600LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641419  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-82)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL7597FS1E - 691WB - 600LM - 4000K  
Description: ML56 RR, 75D TIR OPTIC, 6" DEADFRONT TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1056.7 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

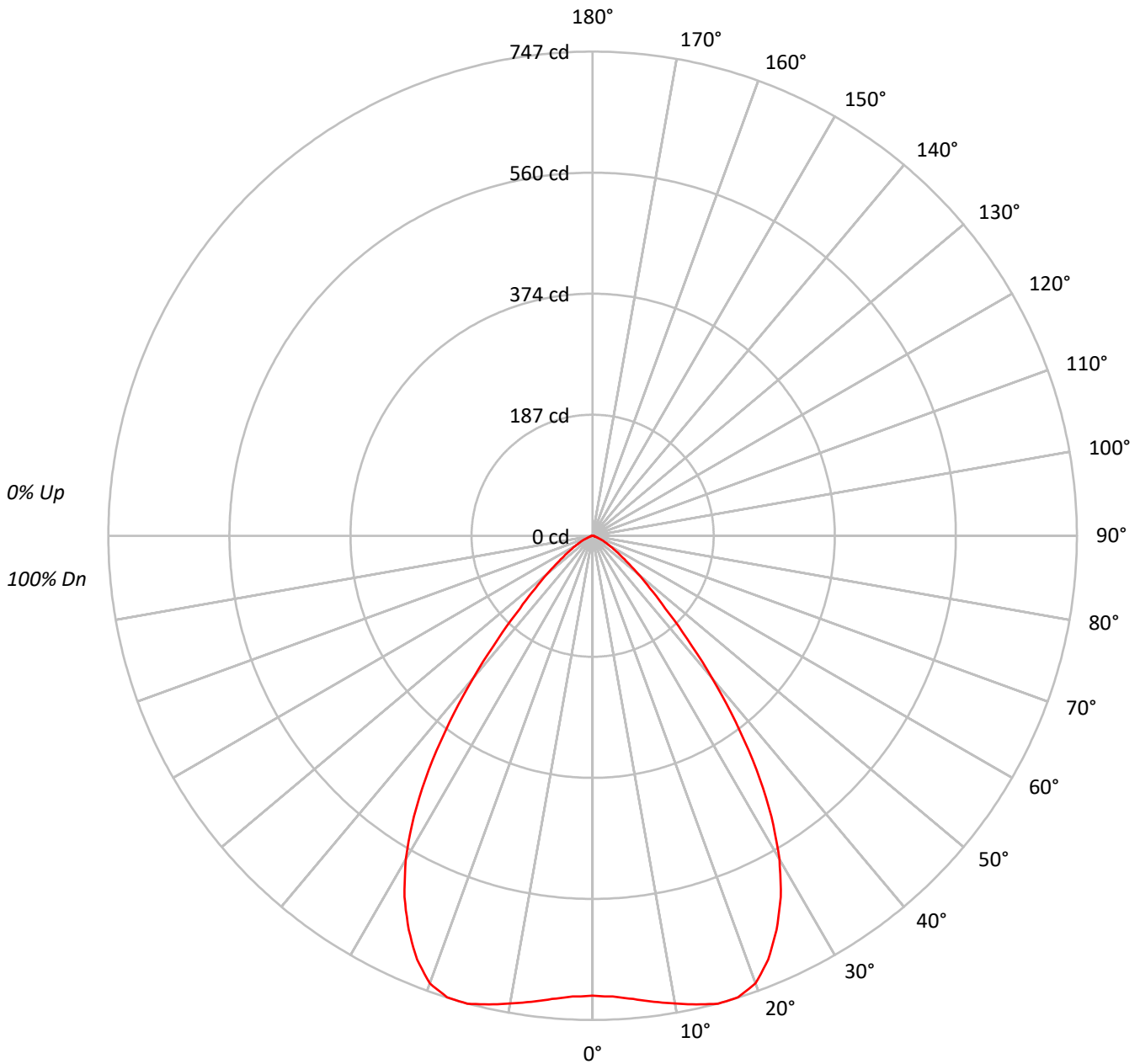
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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																			
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92																			
2	106	100	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83																			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76																			
4	94	85	79	74	92	84	78	73	82	76	72	79	75	72	78	74	71	69																			
5	88	78	72	67	86	77	71	67	76	70	66	74	69	65	72	68	65	63																			
6	83	73	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58																			
7	78	67	61	56	76	67	60	56	65	59	55	64	59	55	63	58	55	53																			
8	73	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	50	49																			
9	69	58	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45																			
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42																			

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

	0°
0°	38906
5°	39478
10°	40798
15°	42418
20°	42867
25°	40587
30°	36474
35°	29506
40°	20481
45°	12296
50°	7838
55°	4893
60°	3289
65°	2127
70°	1090
75°	614
80°	600
85°	629

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12296 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.0	6.5
10°-20°	210.4	19.9
20°-30°	306.0	29.0
30°-40°	270.9	25.6
40°-50°	130.2	12.3
50°-60°	48.5	4.6
60°-70°	16.6	1.6
70°-80°	3.7	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°	585.4	55.4
0°-40°	856.3	81.0
0°-60°	1035.0	97.9
0°-90°	1056.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1056.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	710	
5°	717	69
15°	747	210
25°	671	306
35°	441	271
45°	159	130
55°	51	48
65°	16	17
75°	3	4
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	709.7
2.5°	711.6
5°	717.4
7.5°	725.1
10°	732.9
12.5°	740.6
15°	747.4
17.5°	746.4
20°	734.8
22.5°	707.7
25°	671.0
27.5°	628.5
30°	576.2
32.5°	513.4
35°	440.9
37.5°	362.6
40°	286.2
42.5°	215.6
45°	158.6
47.5°	119.9
50°	91.9
52.5°	67.7
55°	51.2
57.5°	38.7
60°	30.0
62.5°	23.2
65°	16.4
67.5°	9.7
70°	6.8
72.5°	3.9
75°	2.9
77.5°	2.9
80°	1.9
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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(END OF REPORT)