

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: P641421

Luminaire Tested: ML5612LSVWFL7597FS1E - 691WB - 900LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641421  
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 - 900LM - 2700K  
Description: ML56 RR, 75D TIR OPTIC, 6" DEADFRONT TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

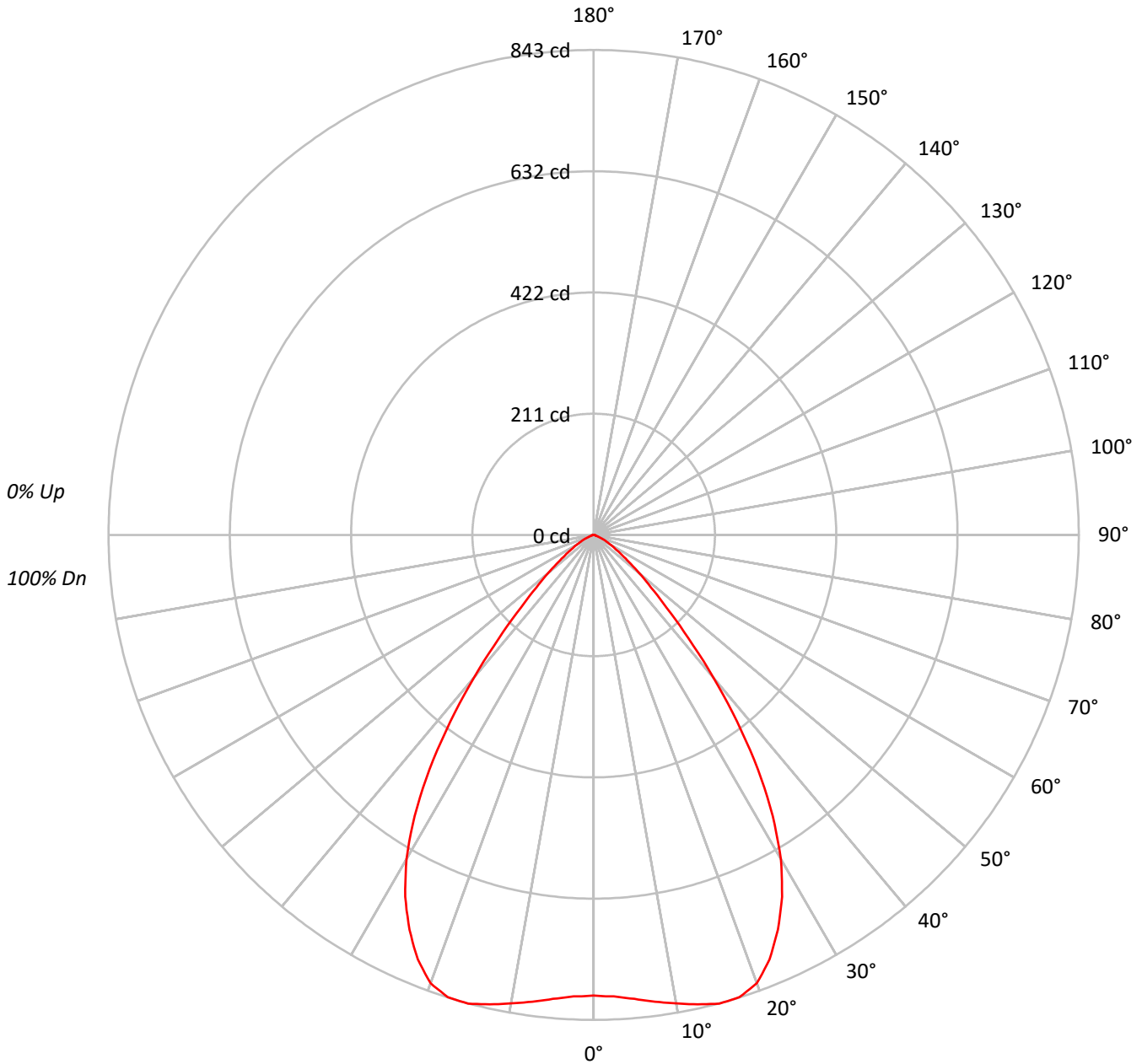
Lumens per Lamp: N/A  
Luminaire Lumens: 1192.5 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 13.3  
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			
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°	43905
5°	44552
10°	46041
15°	47866
20°	48380
25°	45801
30°	41165
35°	33301
40°	23115
45°	13870
50°	8844
55°	5524
60°	3706
65°	2400
70°	1218
75°	699
80°	695
85°	692

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13870 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.9	6.5
10°-20°	237.5	19.9
20°-30°	345.3	29.0
30°-40°	305.8	25.6
40°-50°	146.9	12.3
50°-60°	54.7	4.6
60°-70°	18.8	1.6
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°	660.6	55.4
0°-40°	966.4	81.0
0°-60°	1168.1	98.0
0°-90°	1192.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1192.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	801	
5°	810	78
15°	843	237
25°	757	345
35°	498	306
45°	179	147
55°	58	55
65°	18	19
75°	3	4
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	800.9
2.5°	803.1
5°	809.6
7.5°	818.4
10°	827.1
12.5°	835.8
15°	843.4
17.5°	842.4
20°	829.3
22.5°	798.7
25°	757.2
27.5°	709.2
30°	650.3
32.5°	579.4
35°	497.6
37.5°	409.2
40°	323.0
42.5°	243.3
45°	178.9
47.5°	135.3
50°	103.7
52.5°	76.4
55°	57.8
57.5°	43.6
60°	33.8
62.5°	26.2
65°	18.5
67.5°	10.9
70°	7.6
72.5°	4.4
75°	3.3
77.5°	3.3
80°	2.2
82.5°	2.2
85°	1.1
87.5°	1.1
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)