

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: P641423

Luminaire Tested: ML5612LSVWFL7597FS1E - 691WB - 900LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641423  
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 - 3500K  
Description: ML56 RR, 75D TIR OPTIC, 6" DEADFRONT TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1260.0 lumens  
Efficiency: N/A  
Efficacy: 94.7 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

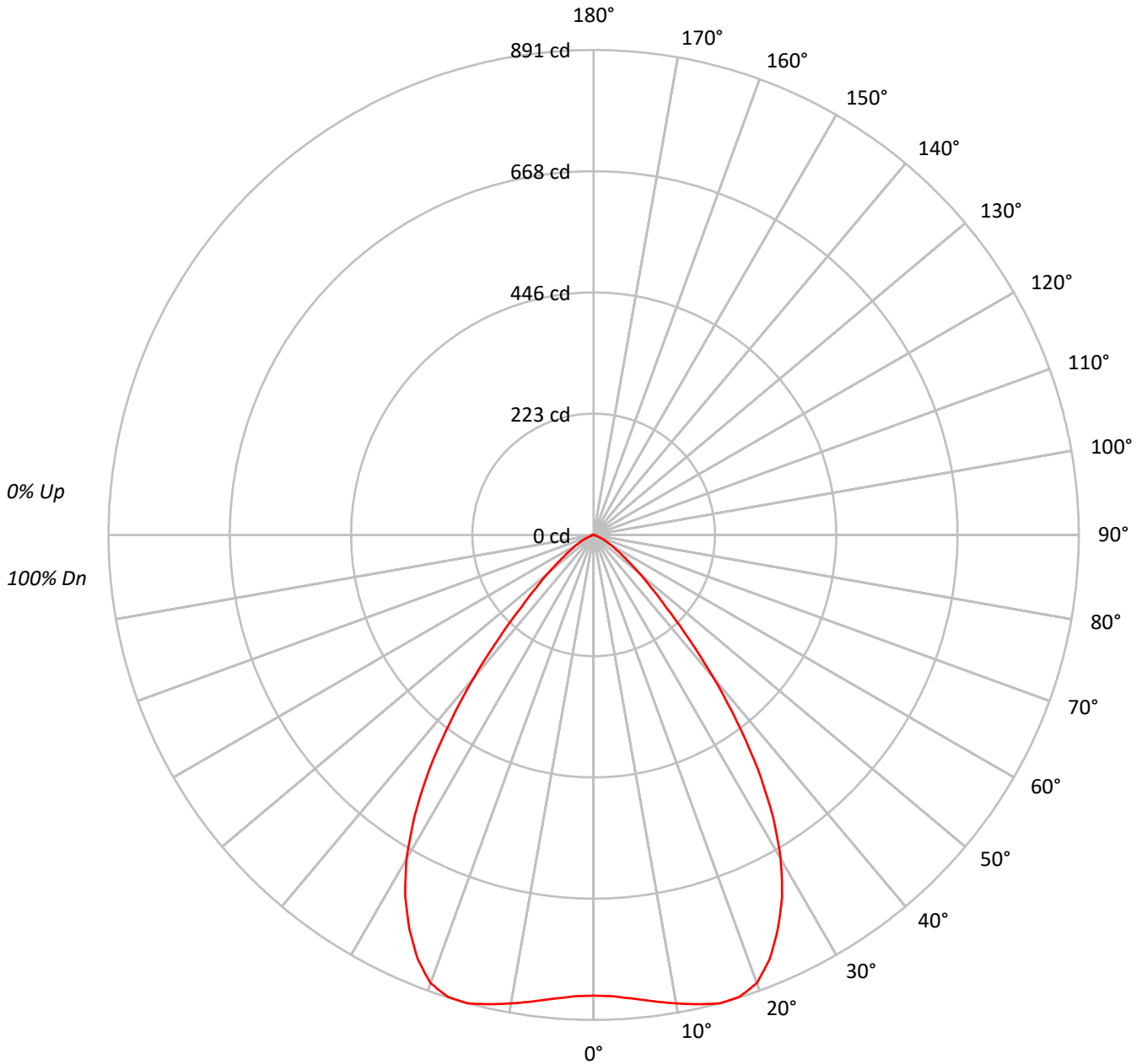
Input Watts (W): 13.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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			100
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92			92
2	106	100	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	76	72	79	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	64	60	69	64	60	67	63	59	58			58
7	78	67	61	56	76	67	60	56	65	59	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	58	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°	46389
5°	47072
10°	48646
15°	50579
20°	51116
25°	48396
30°	43494
35°	35181
40°	24417
45°	14660
50°	9339
55°	5840
60°	3914
65°	2542
70°	1298
75°	741
80°	726
85°	755

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14660 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.3	6.5
10°-20°	250.9	19.9
20°-30°	364.8	29.0
30°-40°	323.0	25.6
40°-50°	155.3	12.3
50°-60°	57.8	4.6
60°-70°	19.8	1.6
70°-80°	4.4	0.4
80°-90°	1.6	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°	698.0	55.4
0°-40°	1021.1	81.0
0°-60°	1234.1	97.9
0°-90°	1260.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1260.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	846	
5°	855	82
15°	891	251
25°	800	365
35°	526	323
45°	189	155
55°	61	58
65°	20	20
75°	4	4
85°	1	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	846.2
2.5°	848.5
5°	855.4
7.5°	864.6
10°	873.9
12.5°	883.1
15°	891.2
17.5°	890.0
20°	876.2
22.5°	843.9
25°	800.1
27.5°	749.4
30°	687.1
32.5°	612.2
35°	525.7
37.5°	432.3
40°	341.2
42.5°	257.1
45°	189.1
47.5°	143.0
50°	109.5
52.5°	80.7
55°	61.1
57.5°	46.1
60°	35.7
62.5°	27.7
65°	19.6
67.5°	11.5
70°	8.1
72.5°	4.6
75°	3.5
77.5°	3.5
80°	2.3
82.5°	2.3
85°	1.2
87.5°	1.2
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)