

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: P641415

Luminaire Tested: ML5612LSVWFL7597FS1E - 691WB - 1200LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641415  
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 - 1200LM - 5000K  
Description: ML56 RR, 75D TIR OPTIC, 6" DEADFRONT TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1641.7 lumens  
Efficiency: N/A  
Efficacy: 99.5 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

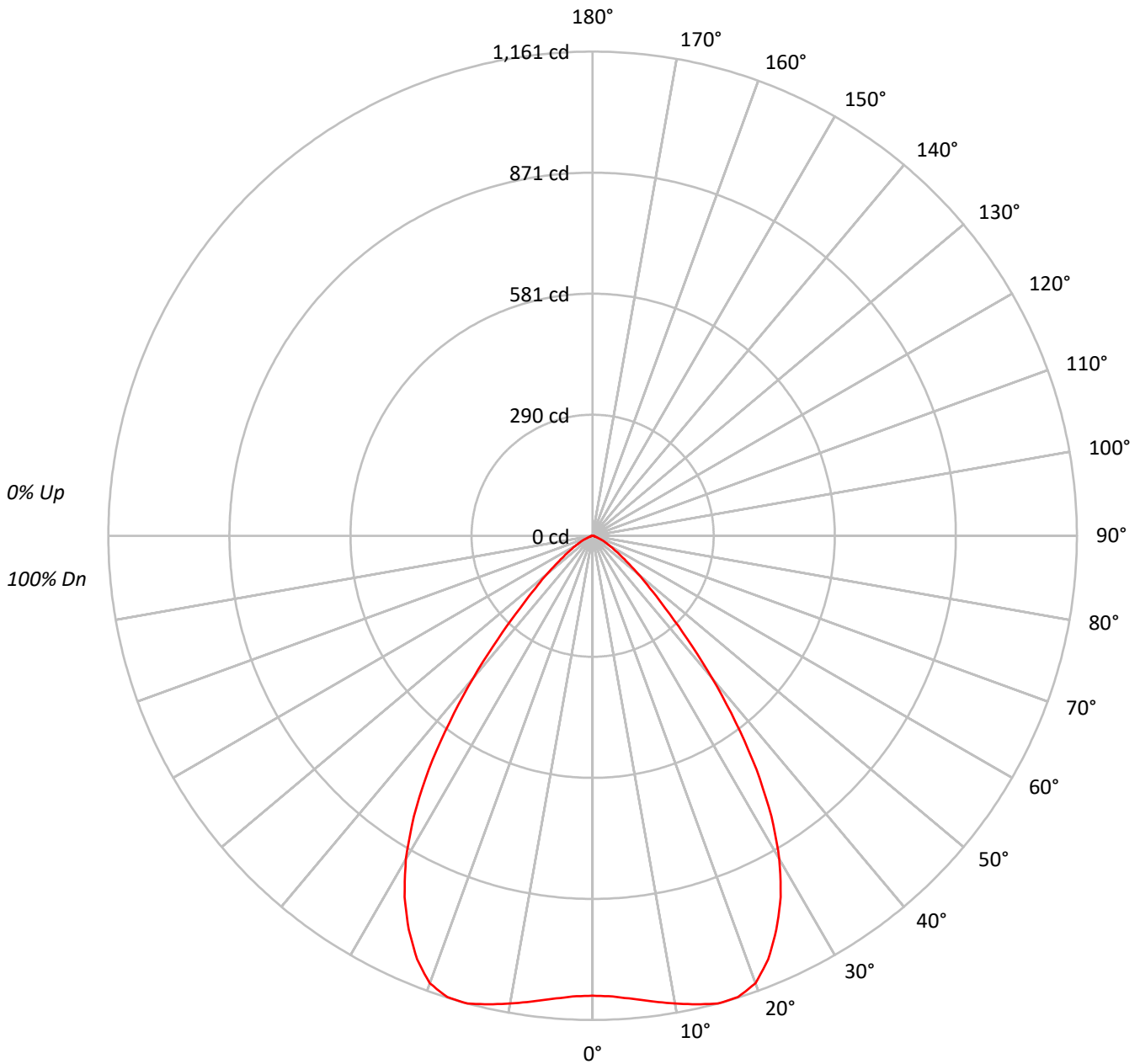
Input Watts (W): 16.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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			
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°	60445
5°	61336
10°	63387
15°	65903
20°	66605
25°	63058
30°	56673
35°	45842
40°	31817
45°	19103
50°	12170
55°	7608
60°	5109
65°	3308
70°	1683
75°	953
80°	947
85°	943

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19103 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.2	6.5
10°-20°	327.0	19.9
20°-30°	475.4	29.0
30°-40°	420.9	25.6
40°-50°	202.3	12.3
50°-60°	75.4	4.6
60°-70°	25.8	1.6
70°-80°	5.7	0.3
80°-90°	2.0	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°	909.5	55.4
0°-40°	1330.5	81.0
0°-60°	1608.1	98.0
0°-90°	1641.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1641.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1103	
5°	1115	107
15°	1161	327
25°	1042	475
35°	685	421
45°	246	202
55°	80	75
65°	26	26
75°	4	6
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1102.6
2.5°	1105.6
5°	1114.6
7.5°	1126.6
10°	1138.7
12.5°	1150.7
15°	1161.2
17.5°	1159.7
20°	1141.7
22.5°	1099.6
25°	1042.5
27.5°	976.4
30°	895.3
32.5°	797.7
35°	685.0
37.5°	563.3
40°	444.6
42.5°	335.0
45°	246.4
47.5°	186.3
50°	142.7
52.5°	105.2
55°	79.6
57.5°	60.1
60°	46.6
62.5°	36.1
65°	25.5
67.5°	15.0
70°	10.5
72.5°	6.0
75°	4.5
77.5°	4.5
80°	3.0
82.5°	3.0
85°	1.5
87.5°	1.5
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)