

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: P641550

Luminaire Tested: ML5612LSVWFL7597FS1E - 694WB - 1200LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641550  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-90)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL7597FS1E - 694WB - 1200LM - 5000K  
Description: ML56 RR, 75D TIR OPTIC, 6" WHITE GIMBAL TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

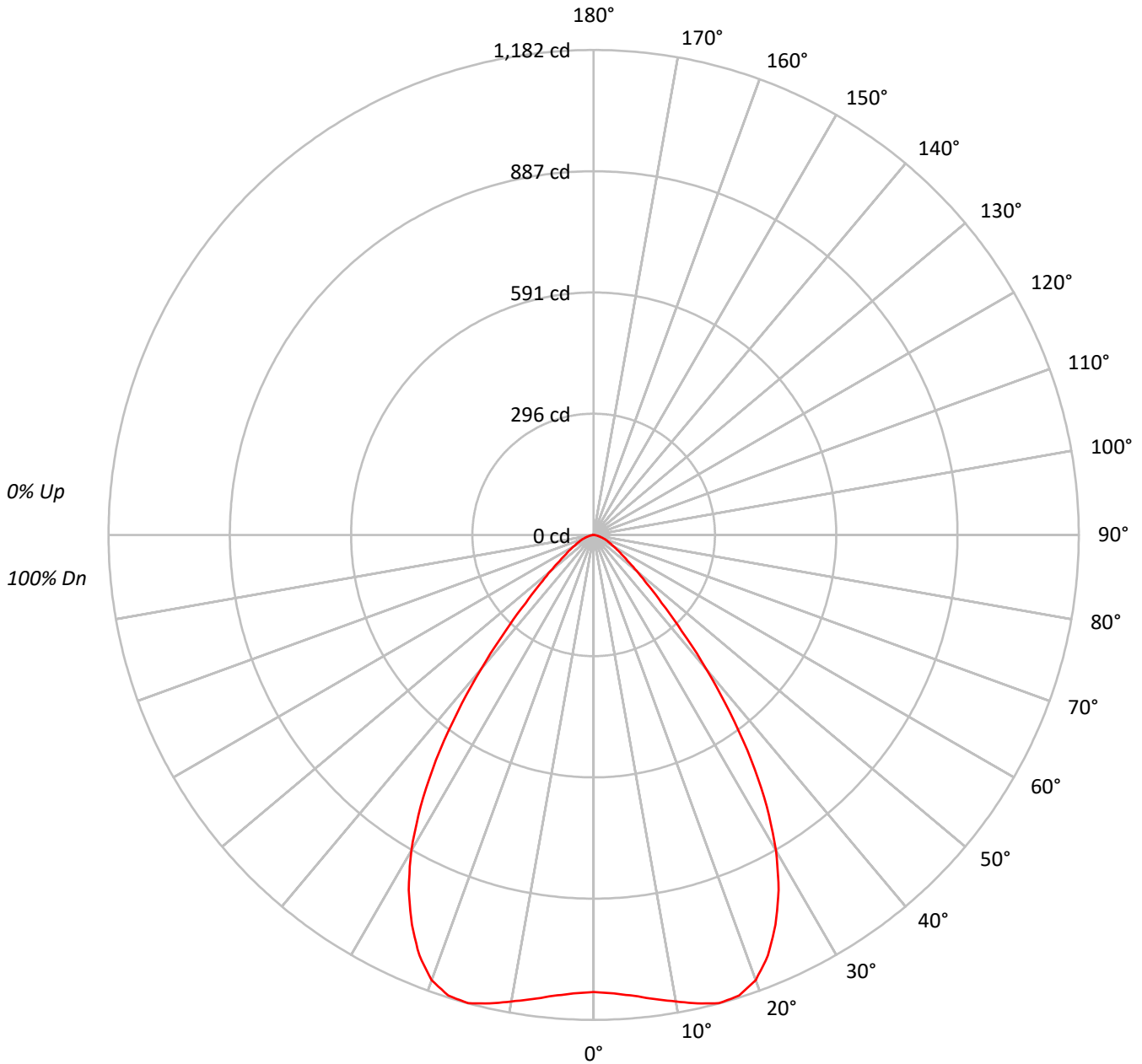
Lumens per Lamp: N/A  
Luminaire Lumens: 1658.2 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	84	78	73	91	83	77	73	81	76	72	79	74	71	77	73	70	68			
5	88	78	71	66	86	77	71	66	75	69	65	73	68	65	72	67	64	62			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57			
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53			
8	73	62	56	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	47	55	50	46	45			
10	65	54	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			

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

	0°
0°	61070
5°	62046
10°	64272
15°	67061
20°	67358
25°	63391
30°	56262
35°	44812
40°	30514
45°	18157
50°	11650
55°	8038
60°	6260
65°	5059
70°	4087
75°	3177
80°	1894
85°	943

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18157 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.5	6.5
10°-20°	332.0	20.0
20°-30°	477.2	28.8
30°-40°	411.6	24.8
40°-50°	192.4	11.6
50°-60°	79.0	4.8
60°-70°	39.5	2.4
70°-80°	16.0	1.0
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°	917.7	55.3
0°-40°	1329.3	80.2
0°-60°	1600.7	96.5
0°-90°	1658.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1658.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1114	
5°	1128	109
15°	1182	332
25°	1048	477
35°	670	412
45°	234	192
55°	84	79
65°	39	39
75°	15	16
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1114.0
2.5°	1118.5
5°	1127.5
7.5°	1141.1
10°	1154.6
12.5°	1169.6
15°	1181.6
17.5°	1177.1
20°	1154.6
22.5°	1109.5
25°	1048.0
27.5°	975.9
30°	888.8
32.5°	785.2
35°	669.6
37.5°	545.0
40°	426.4
42.5°	318.3
45°	234.2
47.5°	175.7
50°	136.6
52.5°	105.1
55°	84.1
57.5°	69.1
60°	57.1
62.5°	46.5
65°	39.0
67.5°	33.0
70°	25.5
72.5°	19.5
75°	15.0
77.5°	10.5
80°	6.0
82.5°	3.0
85°	1.5
87.5°	0.0
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)