

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: P641384

Luminaire Tested: ML5612LSVWFL7597FS1E - 594WB - 1200LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641384  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-78)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL7597FS1E - 594WB - 1200LM - 4000K  
Description: ML56 RR, 75D TIR OPTIC, 5" WHITE GIMBAL TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1651.6 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

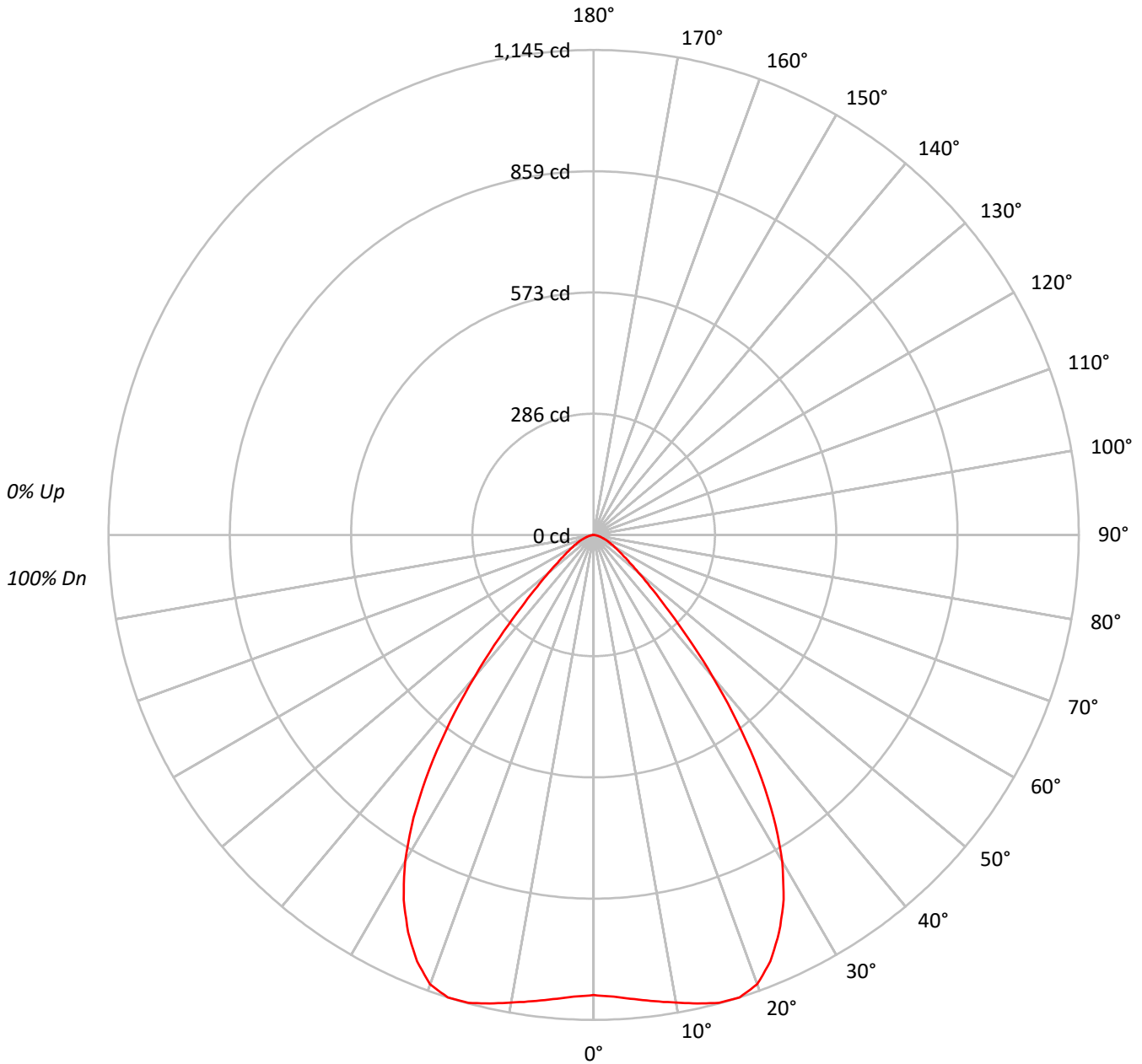
Input Watts (W): 16.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
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	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	84	83																			
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75																			
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68																			
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62																			
6	82	72	65	60	81	71	64	60	69	64	59	68	63	59	67	62	58	57																			
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52																			
8	73	62	55	50	72	61	55	50	60	54	50	59	54	50	58	53	50	48																			
9	69	58	51	47	68	57	51	46	56	50	46	55	50	46	54	50	46	44																			
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41																			

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

	0°
0°	85777
5°	87175
10°	89866
15°	93461
20°	94810
25°	90202
30°	81126
35°	65232
40°	45002
45°	26805
50°	16960
55°	11767
60°	8999
65°	7285
70°	5886
75°	4575
80°	2728
85°	1359

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 26805 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.7	6.4
10°-20°	322.4	19.5
20°-30°	471.9	28.6
30°-40°	416.5	25.2
40°-50°	197.5	12.0
50°-60°	79.8	4.8
60°-70°	39.8	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°	899.9	54.5
0°-40°	1316.5	79.7
0°-60°	1593.7	96.5
0°-90°	1651.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1651.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1087	
5°	1100	106
15°	1144	322
25°	1036	472
35°	677	417
45°	240	197
55°	86	80
65°	39	40
75°	15	16
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1086.6
2.5°	1091.1
5°	1100.1
7.5°	1110.6
10°	1121.1
12.5°	1133.1
15°	1143.6
17.5°	1145.1
20°	1128.6
22.5°	1089.6
25°	1035.6
27.5°	971.0
30°	890.0
32.5°	790.9
35°	676.9
37.5°	556.8
40°	436.7
42.5°	328.7
45°	240.1
47.5°	180.1
50°	138.1
52.5°	106.6
55°	85.5
57.5°	69.0
60°	57.0
62.5°	48.0
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)