

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: P641532

Luminaire Tested: ML5612LSVWFL7597FS1E - 694TBZB - 1200LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641532  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-91)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL7597FS1E - 694TBZB - 1200LM - 3000K  
Description: ML56 RR, 75D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1491.6 lumens  
Efficiency: N/A  
Efficacy: 90.4 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

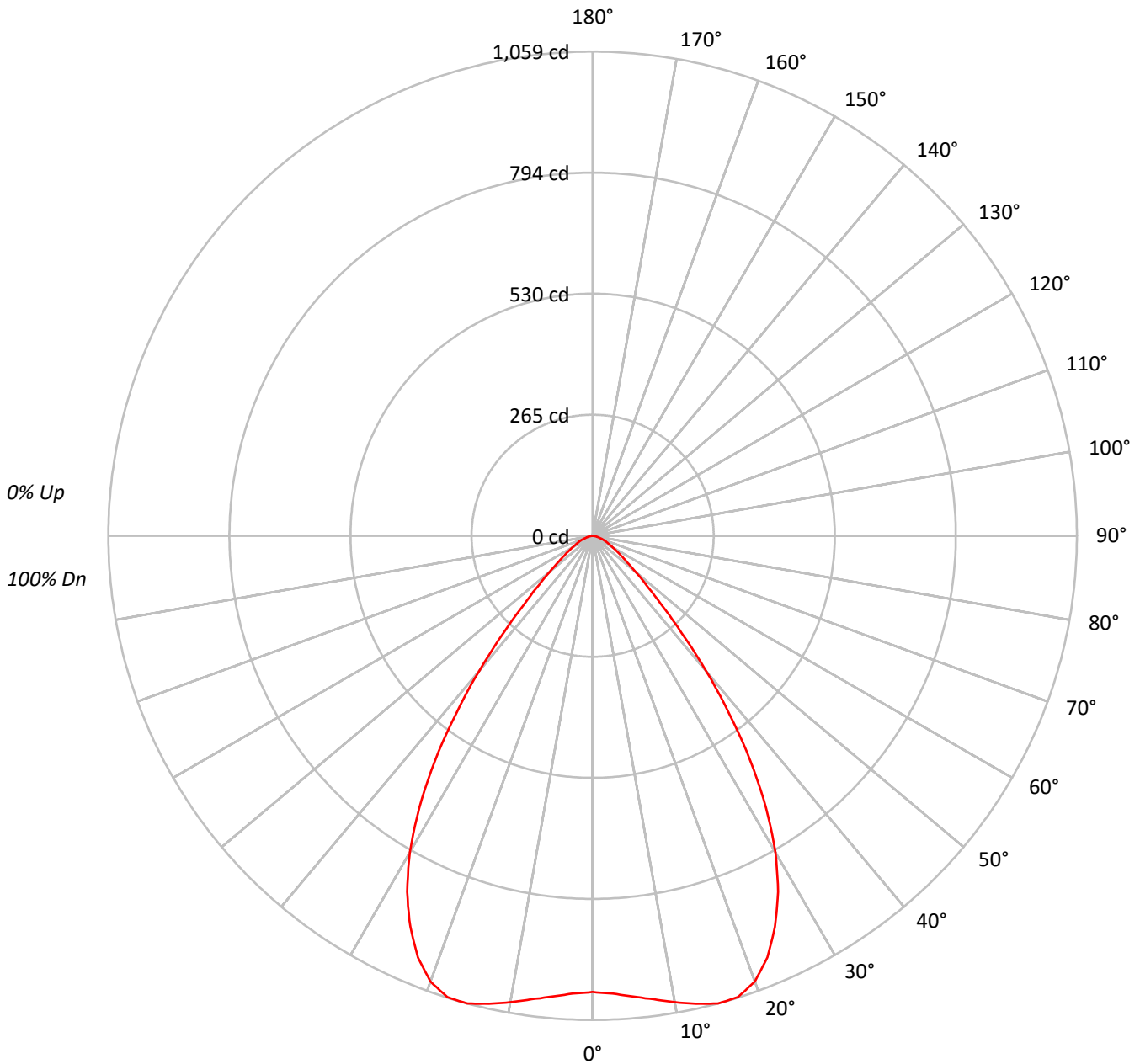
Input Watts (W): 16.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	52			
8	73	62	55	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	46	55	50	46	45			
10	65	54	48	44	64	54	48	43	53	47	43	52	47	43	51	47	43	42			

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

	0°
0°	54705
5°	55662
10°	57664
15°	60103
20°	60514
25°	57076
30°	50622
35°	40254
40°	27595
45°	16312
50°	10422
55°	7264
60°	5504
65°	4579
70°	3703
75°	2881
80°	1705
85°	881

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16312 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.3	6.5
10°-20°	297.9	20.0
20°-30°	429.4	28.8
30°-40°	370.5	24.8
40°-50°	173.6	11.6
50°-60°	71.1	4.8
60°-70°	35.6	2.4
70°-80°	14.5	1.0
80°-90°	1.8	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°	824.5	55.3
0°-40°	1195.0	80.1
0°-60°	1439.7	96.5
0°-90°	1491.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1491.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	998	
5°	1012	97
15°	1059	298
25°	944	429
35°	602	370
45°	210	174
55°	76	71
65°	35	36
75°	14	14
85°	1	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	997.9
2.5°	1002.0
5°	1011.5
7.5°	1022.4
10°	1035.9
12.5°	1048.2
15°	1059.0
17.5°	1057.7
20°	1037.3
22.5°	997.9
25°	943.6
27.5°	878.4
30°	799.7
32.5°	706.0
35°	601.5
37.5°	491.5
40°	385.6
42.5°	287.8
45°	210.4
47.5°	158.9
50°	122.2
52.5°	95.0
55°	76.0
57.5°	62.5
60°	50.2
62.5°	42.1
65°	35.3
67.5°	29.9
70°	23.1
72.5°	17.7
75°	13.6
77.5°	9.5
80°	5.4
82.5°	2.7
85°	1.4
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)