

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: P641377

Luminaire Tested: ML5612LSVWFL7597FS1E - 594TBZB - 900LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641377  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-80)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL7597FS1E - 594TBZB - 900LM - 3000K  
Description: ML56 RR, 75D TIR OPTIC, 5" TUSCON BRONZE GIMBAL TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1228.8 lumens  
Efficiency: N/A  
Efficacy: 92.4 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

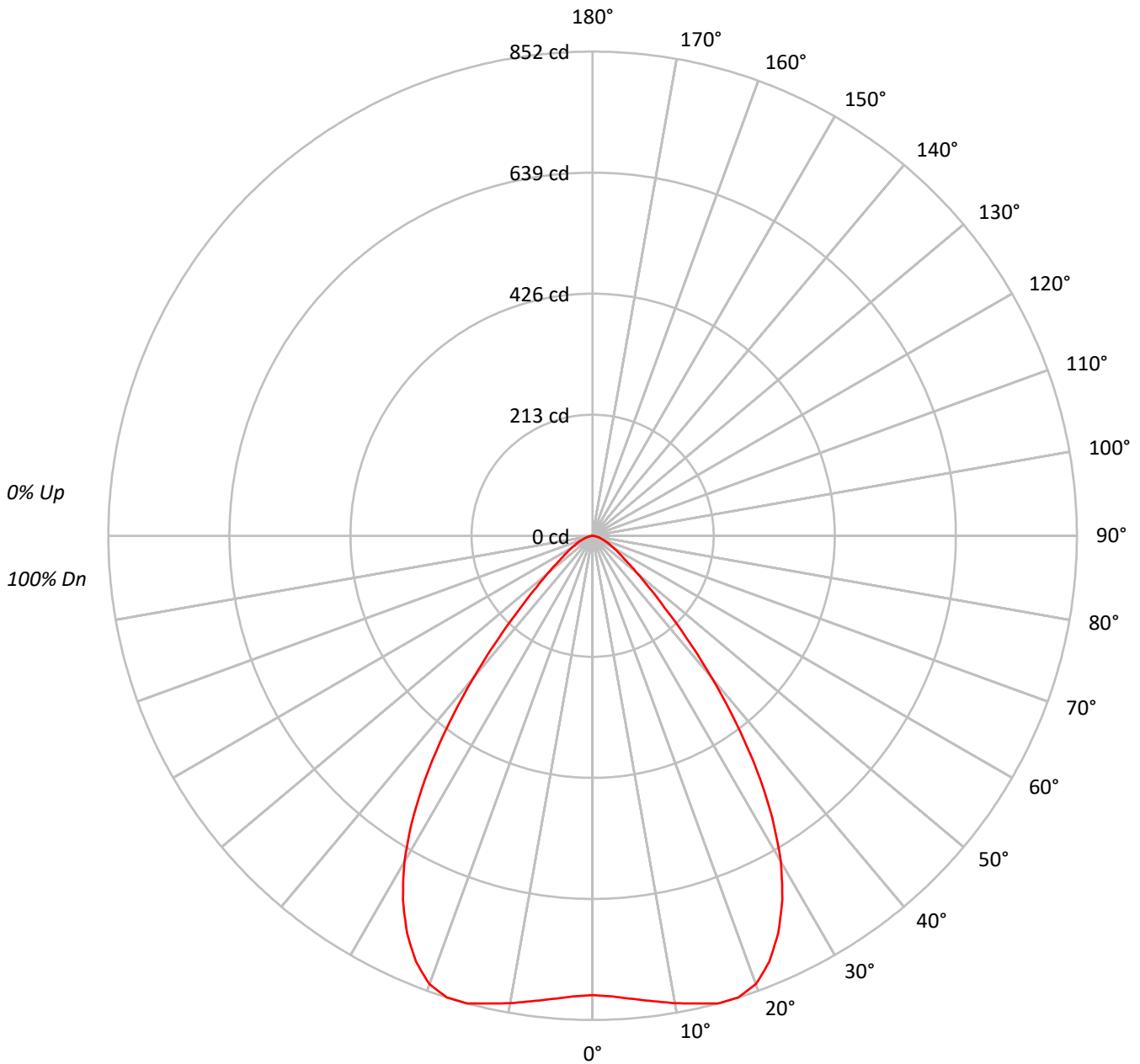
Input Watts (W): 13.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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			
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	72	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	47	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°	63792
5°	64836
10°	66941
15°	69622
20°	70532
25°	67260
30°	60362
35°	48570
40°	33543
45°	20050
50°	12686
55°	8657
60°	6742
65°	5454
70°	4408
75°	3416
80°	2046
85°	996

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20050 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.6	6.4
10°-20°	240.0	19.5
20°-30°	351.4	28.6
30°-40°	309.8	25.2
40°-50°	147.2	12.0
50°-60°	59.2	4.8
60°-70°	29.3	2.4
70°-80°	12.0	1.0
80°-90°	1.5	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°	670.0	54.5
0°-40°	979.7	79.7
0°-60°	1186.1	96.5
0°-90°	1228.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1228.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	808	
5°	818	79
15°	852	240
25°	772	351
35°	504	310
45°	180	147
55°	63	59
65°	29	29
75°	11	12
85°	1	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	808.1
2.5°	811.5
5°	818.2
7.5°	826.1
10°	835.1
12.5°	842.9
15°	851.9
17.5°	851.9
20°	839.6
22.5°	811.5
25°	772.2
27.5°	722.8
30°	662.2
32.5°	588.1
35°	504.0
37.5°	413.1
40°	325.5
42.5°	244.7
45°	179.6
47.5°	133.6
50°	103.3
52.5°	78.6
55°	62.9
57.5°	51.6
60°	42.7
62.5°	34.8
65°	29.2
67.5°	23.6
70°	19.1
72.5°	14.6
75°	11.2
77.5°	7.9
80°	4.5
82.5°	2.2
85°	1.1
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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Scaled Data Report



(END OF REPORT)