

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: P644020

Luminaire Tested: ML5615LSWFL559FS1E - 693TBZB - 900LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P644020  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-66)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSWFL559FS1E - 693TBZB - 900LM - 5000K  
Description: ML56 RR, 55D TIR OPTIC, 6" TUSCON BRONZE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

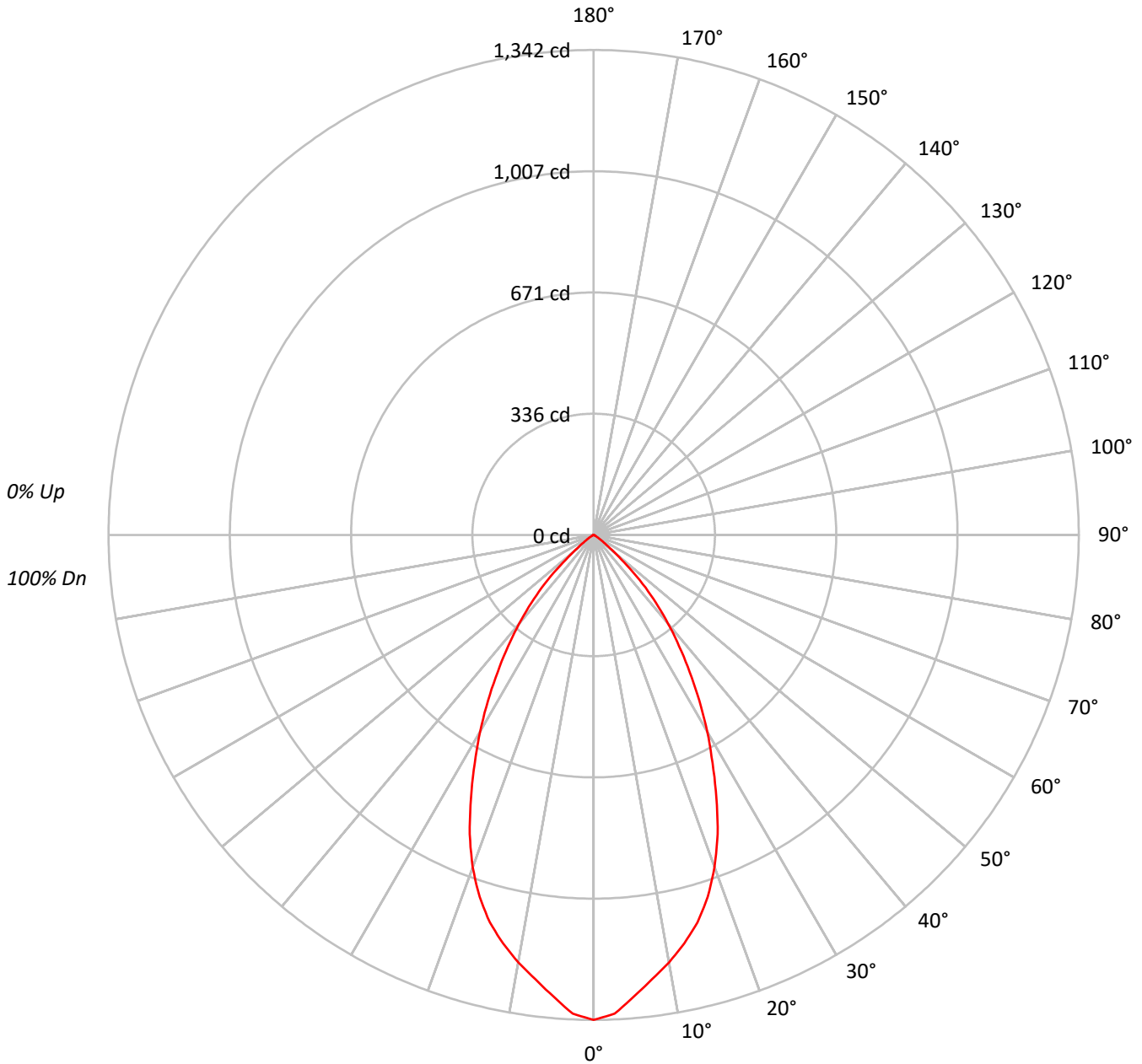
Lumens per Lamp: N/A  
Luminaire Lumens: 1261.2 lumens  
Efficiency: N/A  
Efficacy: 120.1 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 10.5  
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	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93			
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86			
3	101	95	89	85	99	93	88	85	91	87	83	88	85	82	86	83	81	79			
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	74	73			
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67			
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62			
7	81	71	65	61	80	71	65	60	69	64	60	68	63	60	67	63	59	58			
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54			
9	73	63	57	52	72	62	56	52	61	56	52	60	56	52	60	55	52	50			
10	69	59	53	49	68	59	53	49	58	53	49	57	52	49	56	52	49	47			

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

	0°
0°	73569
5°	70531
10°	66855
15°	62997
20°	57061
25°	48565
30°	39740
35°	30979
40°	22950
45°	14901
50°	6209
55°	2284
60°	998
65°	298
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14901 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.9	9.5
10°-20°	309.1	24.5
20°-30°	367.1	29.1
30°-40°	289.9	23.0
40°-50°	145.9	11.6
50°-60°	26.3	2.1
60°-70°	3.0	0.2
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	796.1	63.1
0°-40°	1085.9	86.1
0°-60°	1258.2	99.8
0°-90°	1261.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1261.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1342	
5°	1282	120
15°	1110	309
25°	803	367
35°	463	290
45°	192	146
55°	24	26
65°	2	3
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1342.0
2.5°	1326.1
5°	1281.7
7.5°	1239.6
10°	1201.0
12.5°	1157.7
15°	1110.0
17.5°	1049.7
20°	978.1
22.5°	896.2
25°	802.9
27.5°	711.9
30°	627.8
32.5°	543.6
35°	462.9
37.5°	388.9
40°	320.7
42.5°	254.7
45°	192.2
47.5°	124.0
50°	72.8
52.5°	38.7
55°	23.9
57.5°	15.9
60°	9.1
62.5°	4.5
65°	2.3
67.5°	1.1
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
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)