

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: P643898

Luminaire Tested: ML5615LSWFL559FS1E - 594WB - 900LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643898  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-55)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSWFL559FS1E - 594WB - 900LM - 3500K  
Description: ML56 RR, 55D TIR OPTIC, 5" WHITE GIMBAL TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

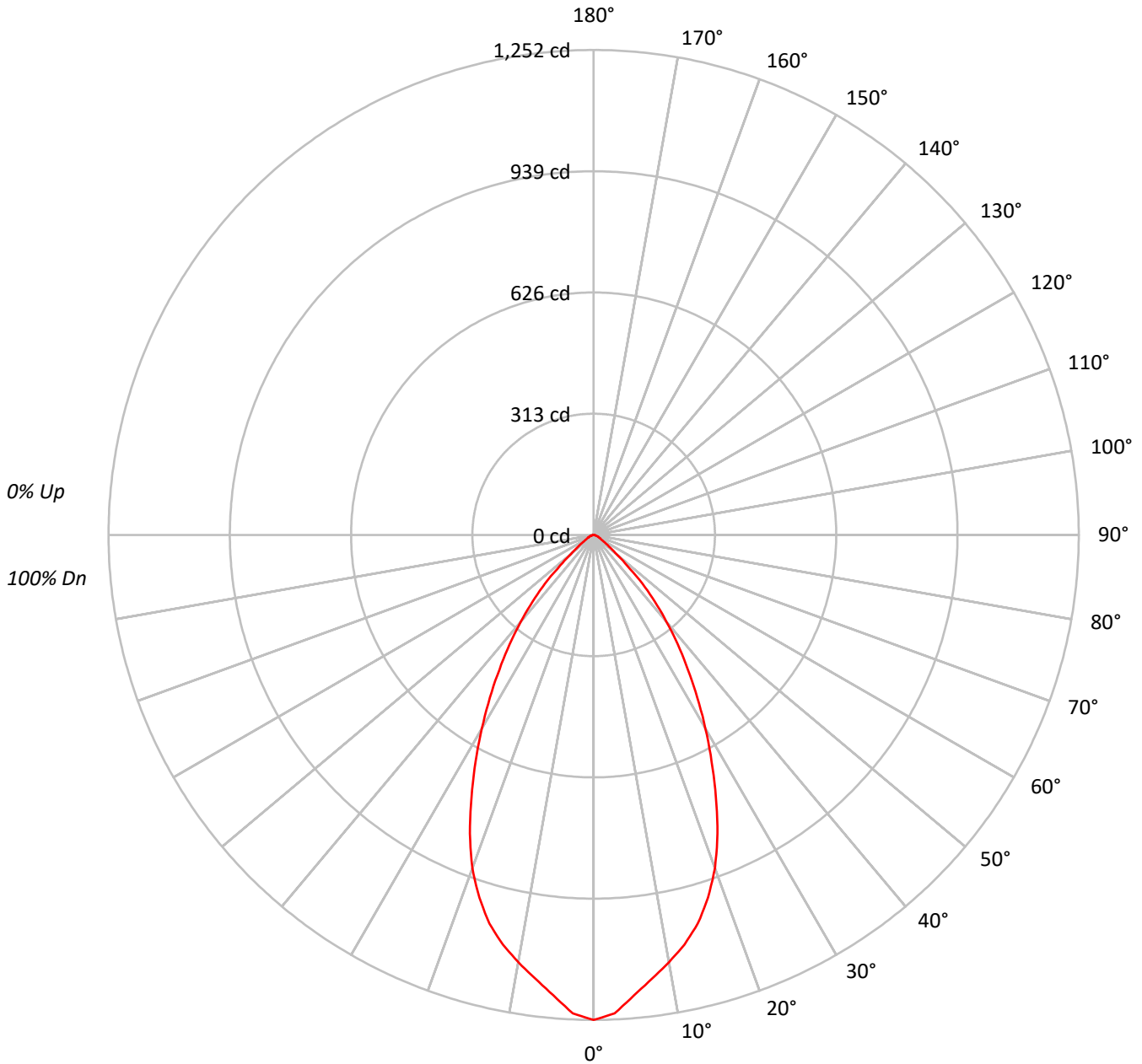
Lumens per Lamp: N/A  
Luminaire Lumens: 1201.4 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.88  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

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									
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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92																			
2	107	101	97	93	105	100	96	92	96	93	90	93	91	88	91	88	87	85																			
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78																			
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72																			
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66																			
6	85	75	69	64	83	74	68	64	73	68	64	71	67	63	70	66	63	61																			
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57																			
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53																			
9	72	62	56	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49																			
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	55	51	47	46																			

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

	0°
0°	98842
5°	94536
10°	89786
15°	84888
20°	76875
25°	64978
30°	52586
35°	40832
40°	30163
45°	19816
50°	9469
55°	5092
60°	3505
65°	2764
70°	2447
75°	1617
80°	955
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19816 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.7	9.3
10°-20°	289.1	24.1
20°-30°	340.9	28.4
30°-40°	265.4	22.1
40°-50°	135.5	11.3
50°-60°	37.0	3.1
60°-70°	15.3	1.3
70°-80°	5.9	0.5
80°-90°	0.6	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°	741.7	61.7
0°-40°	1007.1	83.8
0°-60°	1179.6	98.2
0°-90°	1201.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1201.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1252	
5°	1193	112
15°	1039	289
25°	746	341
35°	424	265
45°	178	136
55°	37	37
65°	15	15
75°	5	6
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1252.1
2.5°	1236.3
5°	1193.0
7.5°	1154.9
10°	1120.1
12.5°	1083.1
15°	1038.7
17.5°	981.6
20°	915.1
22.5°	834.8
25°	746.0
27.5°	659.4
30°	576.9
32.5°	497.7
35°	423.7
37.5°	356.1
40°	292.7
42.5°	233.5
45°	177.5
47.5°	116.2
50°	77.1
52.5°	52.8
55°	37.0
57.5°	27.5
60°	22.2
62.5°	18.0
65°	14.8
67.5°	12.7
70°	10.6
72.5°	7.4
75°	5.3
77.5°	3.2
80°	2.1
82.5°	1.1
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)