

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P644034

Luminaire Tested: ML5615LSWFL559FS1E - 693WB - 900LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P644034  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-63)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSWFL559FS1E - 693WB - 900LM - 4000K  
Description: ML56 RR, 55D TIR OPTIC, 6" WHITE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

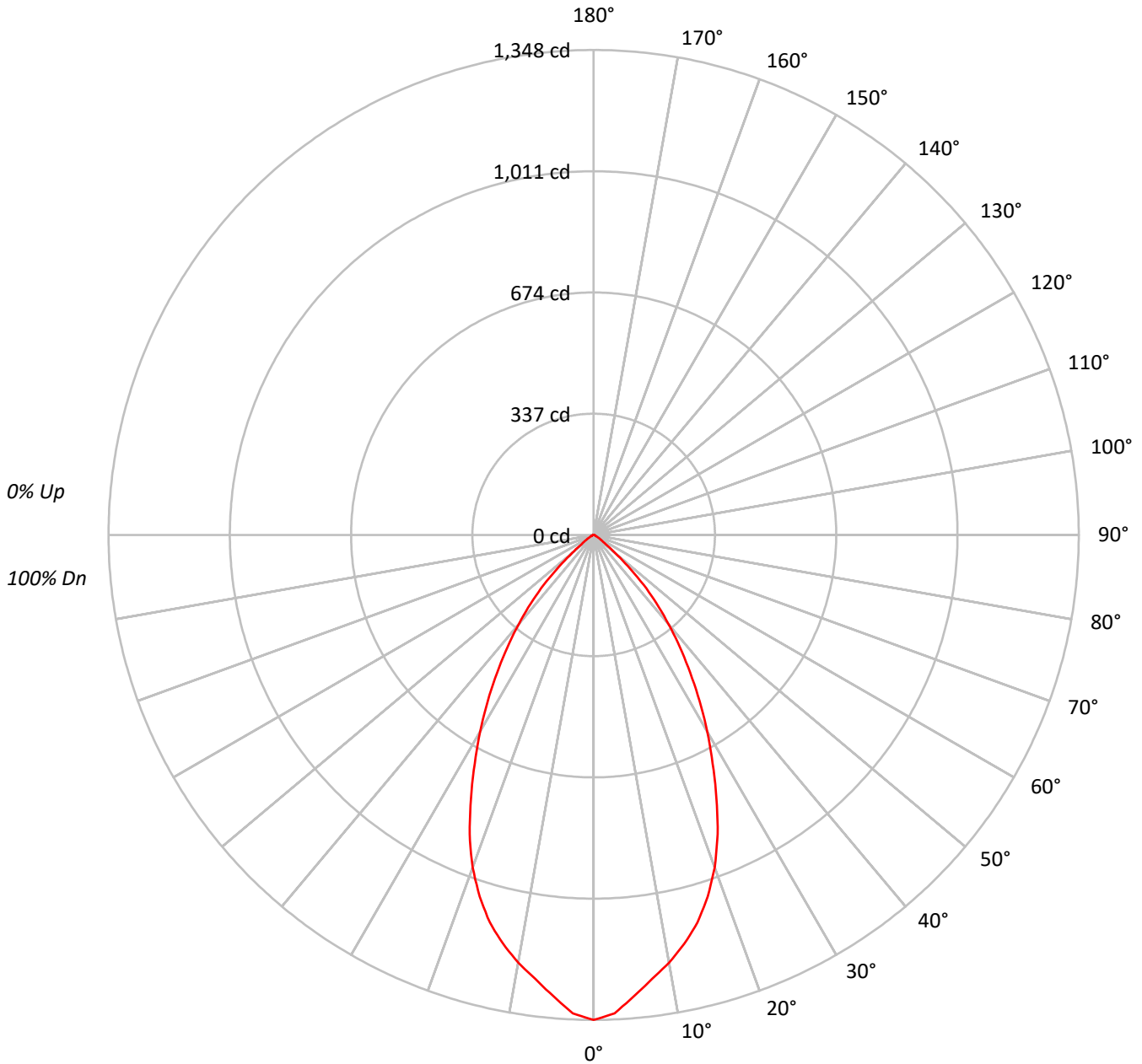
Lumens per Lamp: N/A  
Luminaire Lumens: 1283.4 lumens  
Efficiency: N/A  
Efficacy: 122.2 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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									
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	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93																			
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85																			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78																			
4	96	87	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72																			
5	90	81	75	71	89	80	75	70	79	73	70	77	72	69	75	71	68	67																			
6	85	76	69	65	84	75	69	65	73	68	64	72	67	64	71	67	63	62																			
7	81	71	64	60	79	70	64	60	69	63	59	68	63	59	66	62	59	57																			
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53																			
9	73	62	56	52	71	62	56	52	61	55	52	60	55	51	59	55	51	50																			
10	69	59	53	49	68	58	52	48	57	52	48	57	52	48	56	51	48	47																			

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

	0°
0°	73898
5°	70801
10°	67189
15°	63281
20°	57352
25°	48813
30°	39930
35°	31260
40°	23179
45°	15242
50°	6593
55°	2714
60°	1491
65°	739
70°	721
75°	720
80°	726
85°	692

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15242 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.4	9.4
10°-20°	310.5	24.2
20°-30°	368.9	28.7
30°-40°	292.4	22.8
40°-50°	149.1	11.6
50°-60°	30.4	2.4
60°-70°	6.7	0.5
70°-80°	3.6	0.3
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°	799.8	62.3
0°-40°	1092.2	85.1
0°-60°	1271.6	99.1
0°-90°	1283.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1283.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1348	
5°	1287	120
15°	1115	311
25°	807	369
35°	467	292
45°	197	149
55°	28	30
65°	6	7
75°	3	4
85°	1	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1348.0
2.5°	1330.9
5°	1286.6
7.5°	1244.5
10°	1207.0
12.5°	1163.8
15°	1115.0
17.5°	1053.6
20°	983.1
22.5°	900.2
25°	807.0
27.5°	716.0
30°	630.8
32.5°	547.8
35°	467.1
37.5°	393.3
40°	323.9
42.5°	258.0
45°	196.6
47.5°	128.4
50°	77.3
52.5°	43.2
55°	28.4
57.5°	20.5
60°	13.6
62.5°	8.0
65°	5.7
67.5°	4.5
70°	4.5
72.5°	3.4
75°	3.4
77.5°	3.4
80°	2.3
82.5°	2.3
85°	1.1
87.5°	1.1
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)