

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: P643988

Luminaire Tested: ML5615LSWFL559FS1E - 693BB - 900LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643988  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-64)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSWFL559FS1E - 693BB - 900LM - 3500K  
Description: ML56 RR, 55D TIR OPTIC, 6" BLACK BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

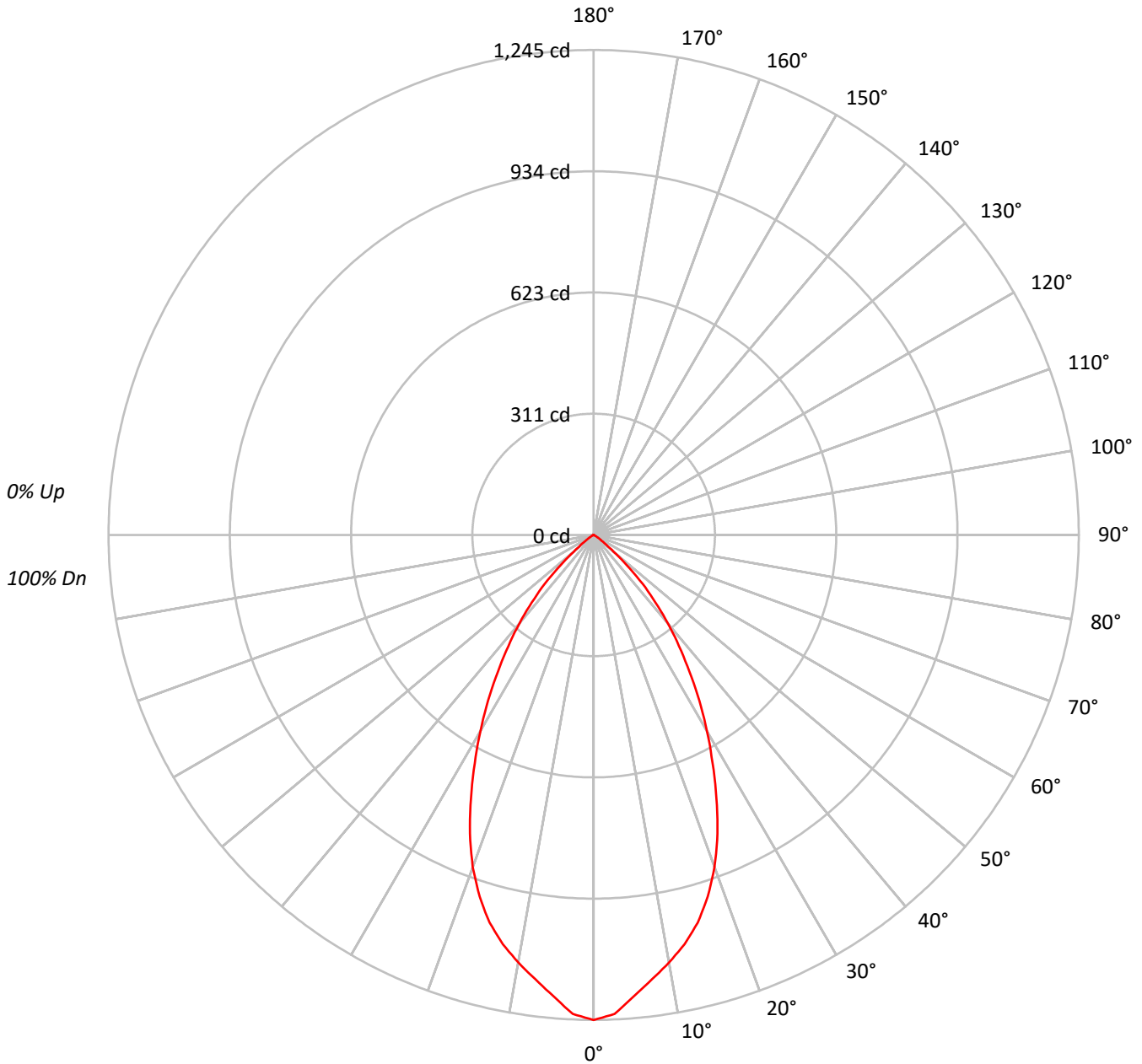
Lumens per Lamp: N/A  
Luminaire Lumens: 1167.5 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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	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	90	85	99	93	89	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	75	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	61	69	64	60	68	63	60	67	63	60	58																			
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54																			
9	73	63	57	53	72	62	56	52	61	56	52	61	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°	68273
5°	65392
10°	62028
15°	58502
20°	52919
25°	45081
30°	36809
35°	28656
40°	21183
45°	13769
50°	5680
55°	2122
60°	932
65°	143
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13769 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.2	9.5
10°-20°	287.0	24.6
20°-30°	340.4	29.2
30°-40°	268.3	23.0
40°-50°	134.8	11.5
50°-60°	23.9	2.0
60°-70°	2.1	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°	738.5	63.3
0°-40°	1006.8	86.2
0°-60°	1165.4	99.8
0°-90°	1167.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1167.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1245	
5°	1188	111
15°	1031	287
25°	745	340
35°	428	268
45°	178	135
55°	22	24
65°	1	2
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1245.4
2.5°	1230.6
5°	1188.3
7.5°	1150.2
10°	1114.3
12.5°	1076.2
15°	1030.8
17.5°	973.7
20°	907.1
22.5°	829.9
25°	745.3
27.5°	660.7
30°	581.5
32.5°	504.3
35°	428.2
37.5°	359.4
40°	296.0
42.5°	234.7
45°	177.6
47.5°	115.2
50°	66.6
52.5°	34.9
55°	22.2
57.5°	13.7
60°	8.5
62.5°	3.2
65°	1.1
67.5°	0.0
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

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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)