

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: P643966

Luminaire Tested: ML5615LSWFL559FS1E - 692W - 1500LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643966  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-62)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSWFL559FS1E - 692W - 1500LM - 2700K  
Description: ML56 RR, 55D TIR OPTIC, 6" WHITE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

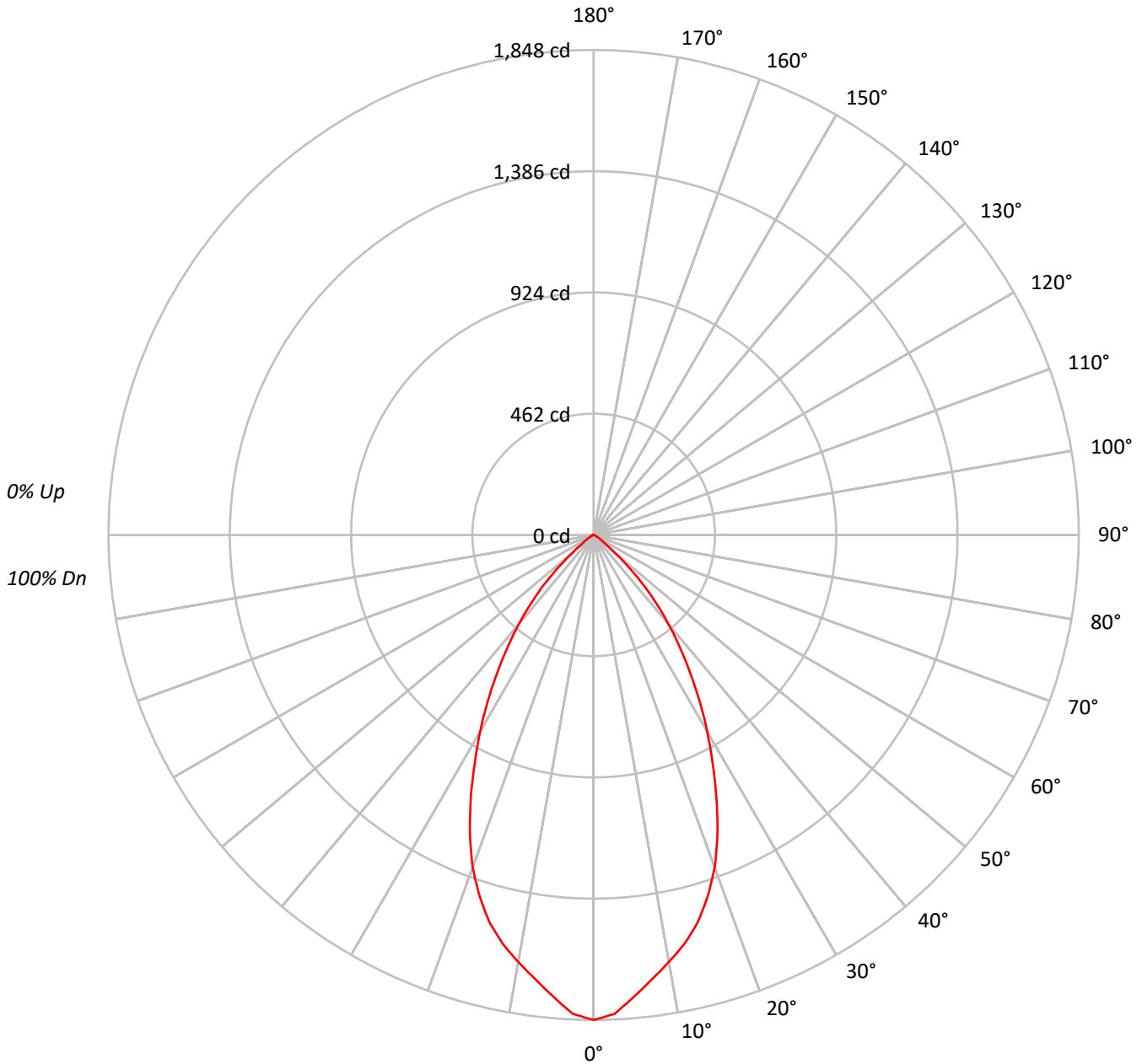
Lumens per Lamp: N/A  
Luminaire Lumens: 1757.1 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 17.1  
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	100	100	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	79	79	79	79
4	96	88	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72	72	72	72
5	90	81	75	71	89	80	75	70	79	73	70	77	72	69	75	71	68	67	67	67	67
6	85	76	70	65	84	75	69	65	74	68	64	72	67	64	71	67	63	62	62	62	62
7	81	71	65	60	79	70	64	60	69	63	60	68	63	59	67	62	59	57	57	57	57
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53	53	53	53
9	73	62	56	52	71	62	56	52	61	55	52	60	55	51	59	55	51	50	50	50	50
10	69	59	53	49	68	58	52	48	57	52	48	57	52	48	56	51	48	47	47	47	47

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

	0°
0°	101319
5°	97177
10°	91982
15°	86811
20°	78623
25°	66947
30°	54711
35°	42757
40°	31702
45°	20731
50°	8878
55°	3718
60°	2050
65°	1206
70°	994
75°	996
80°	979
85°	1006

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20731 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.1	9.4
10°-20°	425.8	24.2
20°-30°	505.6	28.8
30°-40°	400.2	22.8
40°-50°	203.4	11.6
50°-60°	41.4	2.4
60°-70°	9.9	0.6
70°-80°	4.5	0.3
80°-90°	1.3	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°	1096.4	62.4
0°-40°	1496.6	85.2
0°-60°	1741.4	99.1
0°-90°	1757.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1757.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1848	
5°	1766	165
15°	1530	426
25°	1107	506
35°	639	400
45°	267	203
55°	39	41
65°	9	10
75°	5	5
85°	2	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1848.2
2.5°	1826.5
5°	1765.9
7.5°	1706.8
10°	1652.4
12.5°	1596.4
15°	1529.6
17.5°	1444.1
20°	1347.7
22.5°	1232.7
25°	1106.8
27.5°	980.9
30°	864.3
32.5°	750.8
35°	638.9
37.5°	537.8
40°	443.0
42.5°	352.9
45°	267.4
47.5°	175.7
50°	104.1
52.5°	59.1
55°	38.9
57.5°	28.0
60°	18.7
62.5°	12.4
65°	9.3
67.5°	6.2
70°	6.2
72.5°	4.7
75°	4.7
77.5°	3.1
80°	3.1
82.5°	1.6
85°	1.6
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)