

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: P644055

Luminaire Tested: ML5615LSWFL559FS1E - 694WB - 1200LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P644055  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-67)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSWFL559FS1E - 694WB - 1200LM - 5000K  
Description: ML56 RR, 55D TIR OPTIC, 6" WHITE GIMBAL TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

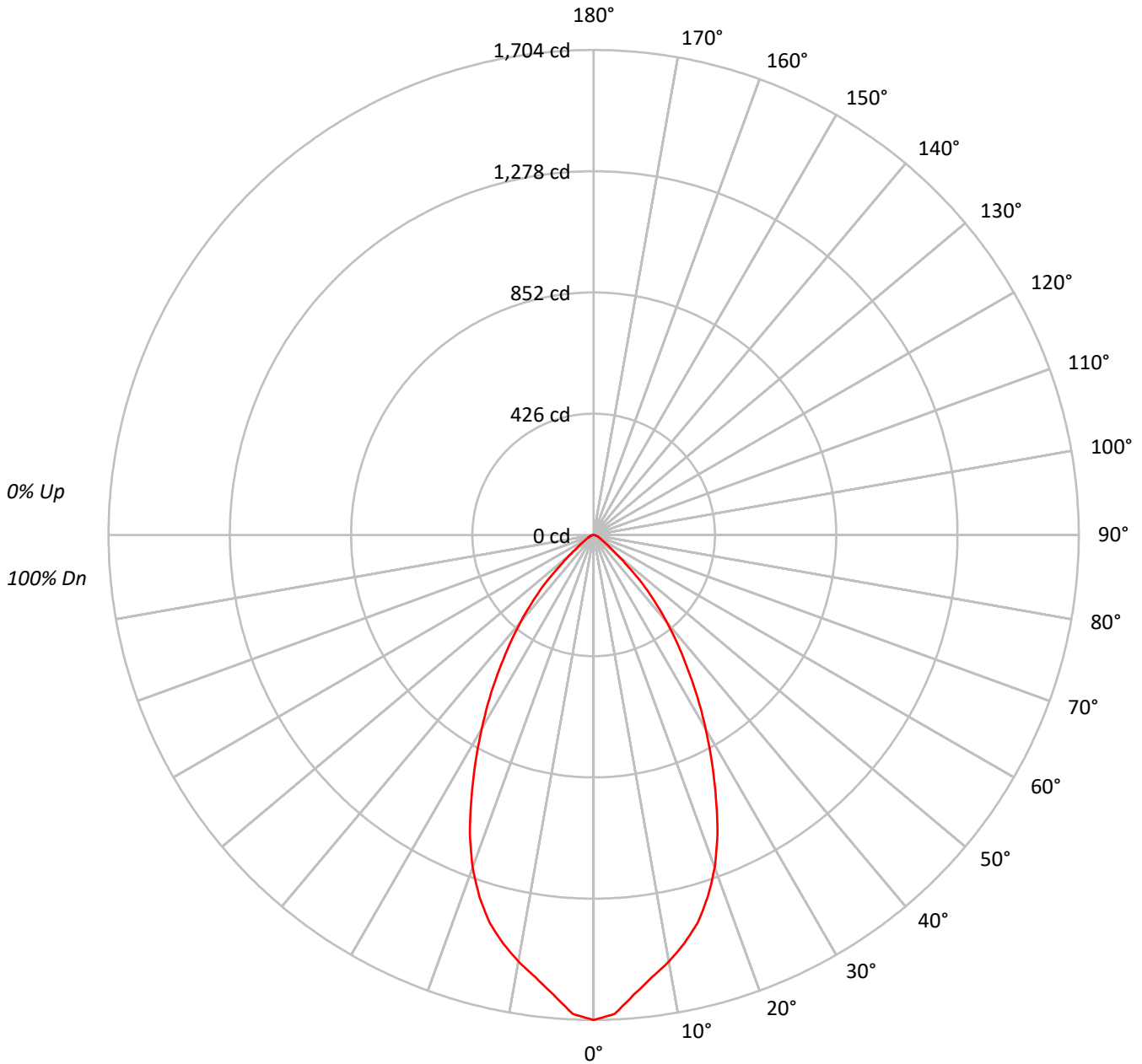
Lumens per Lamp: N/A  
Luminaire Lumens: 1635.4 lumens  
Efficiency: N/A  
Efficacy: 122.0 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 13.4  
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			100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92			92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85			85
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78			78
4	95	87	81	76	93	86	80	76	84	79	75	81	77	74	80	76	73	72			72
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66			66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	63	61			61
7	80	70	64	59	79	70	63	59	68	63	59	67	62	58	66	61	58	57			57
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53			53
9	72	62	56	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49			49
10	69	58	52	48	68	58	52	48	57	51	48	56	51	48	55	51	47	46			46

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

	0°
0°	93441
5°	89208
10°	84712
15°	80086
20°	72503
25°	61425
30°	49717
35°	38601
40°	28511
45°	18738
50°	9074
55°	4807
60°	3311
65°	2607
70°	2308
75°	1525
80°	916
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18738 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.8	9.3
10°-20°	392.6	24.0
20°-30°	463.9	28.4
30°-40°	361.8	22.1
40°-50°	184.9	11.3
50°-60°	50.5	3.1
60°-70°	20.8	1.3
70°-80°	8.4	0.5
80°-90°	0.8	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°	1008.3	61.7
0°-40°	1370.1	83.8
0°-60°	1605.5	98.2
0°-90°	1635.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1635.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1704	
5°	1621	152
15°	1411	393
25°	1016	464
35°	577	362
45°	242	185
55°	50	50
65°	20	21
75°	7	8
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1704.5
2.5°	1684.4
5°	1621.1
7.5°	1567.9
10°	1521.8
12.5°	1470.0
15°	1411.1
17.5°	1333.4
20°	1242.8
22.5°	1136.3
25°	1015.5
27.5°	897.6
30°	785.4
32.5°	680.4
35°	576.8
37.5°	484.7
40°	398.4
42.5°	317.9
45°	241.7
47.5°	159.7
50°	106.4
52.5°	71.9
55°	50.3
57.5°	37.4
60°	30.2
62.5°	24.5
65°	20.1
67.5°	17.3
70°	14.4
72.5°	10.1
75°	7.2
77.5°	5.8
80°	2.9
82.5°	1.4
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)