

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: P644062

Luminaire Tested: ML5615LSWFL559FS1E - 694WB - 900LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P644062  
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 - 900LM - 3000K  
Description: ML56 RR, 55D TIR OPTIC, 6" WHITE GIMBAL TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

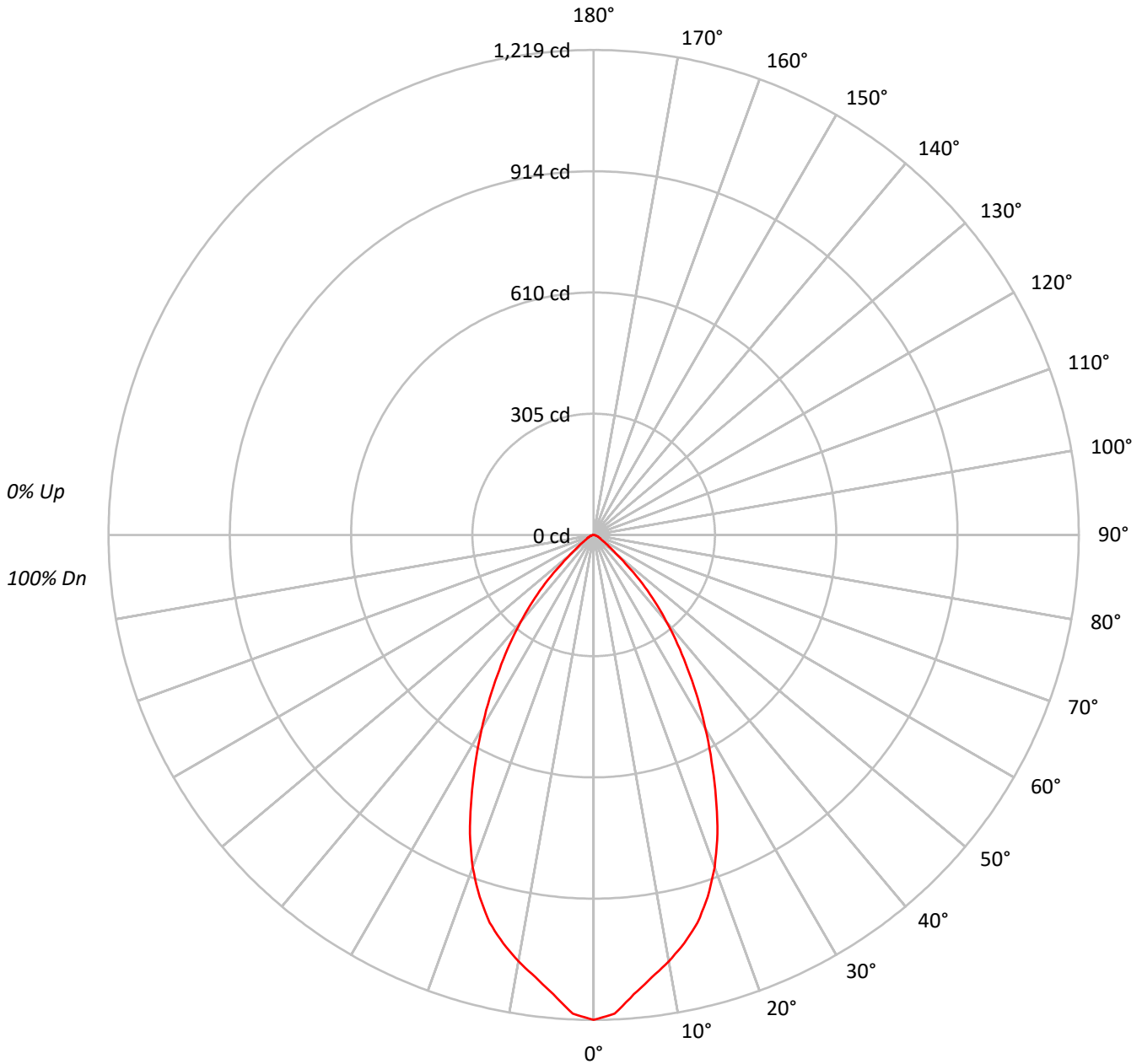
Lumens per Lamp: N/A  
Luminaire Lumens: 1169.4 lumens  
Efficiency: N/A  
Efficacy: 111.4 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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			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°	66820
5°	63790
10°	60581
15°	57270
20°	51845
25°	43926
30°	35550
35°	27606
40°	20388
45°	13397
50°	6490
55°	3441
60°	2368
65°	1868
70°	1651
75°	1080
80°	663
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13397 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.5	9.3
10°-20°	280.8	24.0
20°-30°	331.7	28.4
30°-40°	258.7	22.1
40°-50°	132.2	11.3
50°-60°	36.1	3.1
60°-70°	14.9	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°	721.0	61.7
0°-40°	979.7	83.8
0°-60°	1148.1	98.2
0°-90°	1169.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1169.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1219	
5°	1159	109
15°	1009	281
25°	726	332
35°	412	259
45°	173	132
55°	36	36
65°	14	15
75°	5	6
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1218.9
2.5°	1204.5
5°	1159.2
7.5°	1121.2
10°	1088.3
12.5°	1051.2
15°	1009.1
17.5°	953.5
20°	888.7
22.5°	812.6
25°	726.2
27.5°	641.8
30°	561.6
32.5°	486.5
35°	412.5
37.5°	346.6
40°	284.9
42.5°	227.3
45°	172.8
47.5°	114.2
50°	76.1
52.5°	51.4
55°	36.0
57.5°	26.7
60°	21.6
62.5°	17.5
65°	14.4
67.5°	12.3
70°	10.3
72.5°	7.2
75°	5.1
77.5°	4.1
80°	2.1
82.5°	1.0
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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Scaled Data Report



(END OF REPORT)