

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: P643904

Luminaire Tested: ML5615LSWFL559FS1E - 596WB - 1200LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643904  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-58)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSWFL559FS1E - 596WB - 1200LM - 4000K  
Description: ML56 RR, 55D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

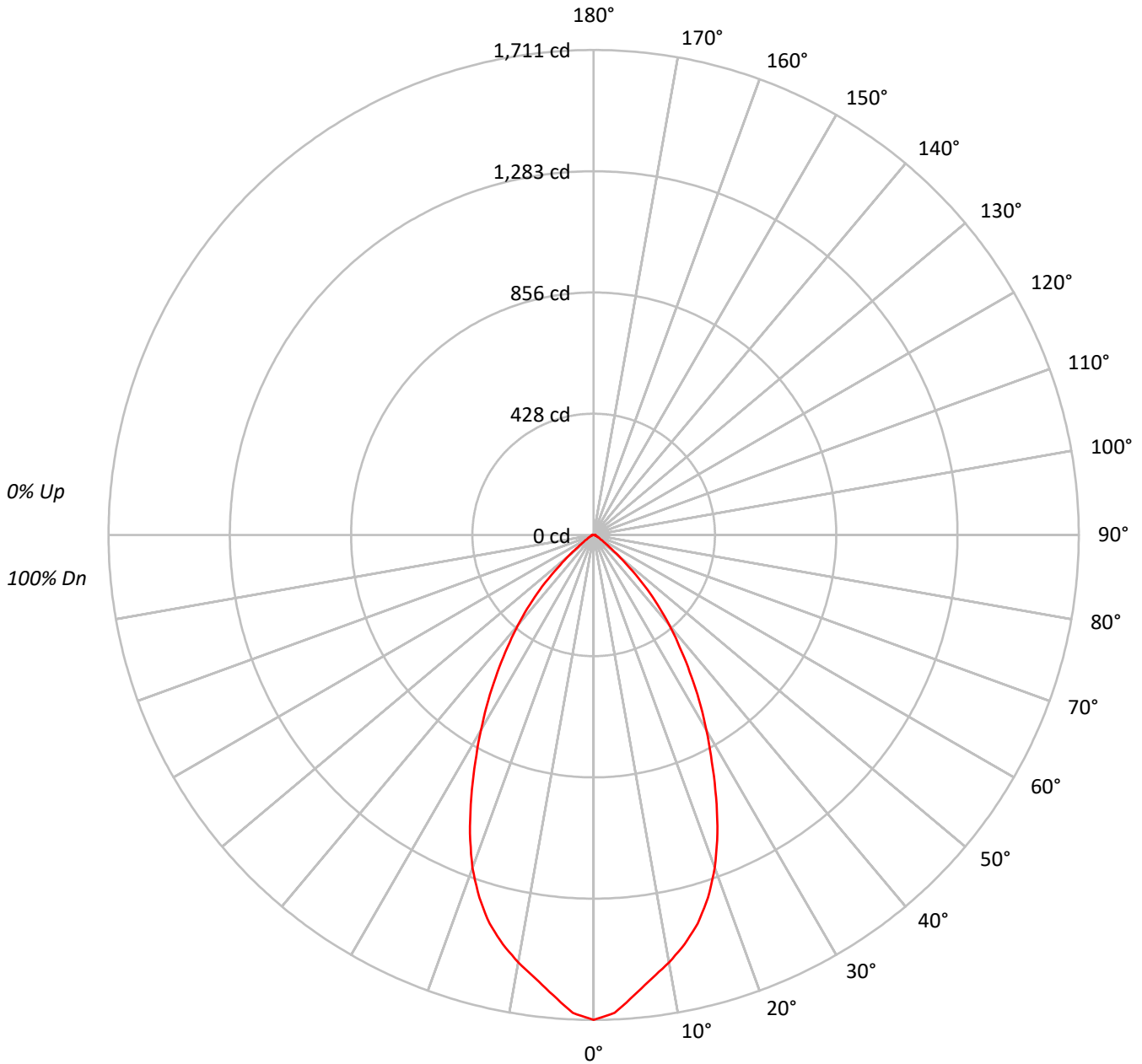
Lumens per Lamp: N/A  
Luminaire Lumens: 1653.5 lumens  
Efficiency: N/A  
Efficacy: 123.4 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

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

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

	0°
0°	135068
5°	129205
10°	122747
15°	115977
20°	104967
25°	88922
30°	72476
35°	56944
40°	42817
45°	28569
50°	13767
55°	6138
60°	3852
65°	2690
70°	1985
75°	1312
80°	2637
85°	3895

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 28569 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.6	9.2
10°-20°	395.0	23.9
20°-30°	466.6	28.2
30°-40°	370.2	22.4
40°-50°	195.0	11.8
50°-60°	47.5	2.9
60°-70°	15.1	0.9
70°-80°	6.8	0.4
80°-90°	4.7	0.3
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°	1014.2	61.3
0°-40°	1384.3	83.7
0°-60°	1626.9	98.4
0°-90°	1653.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1653.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1711	
5°	1630	153
15°	1419	395
25°	1021	467
35°	591	370
45°	256	195
55°	45	47
65°	14	15
75°	4	7
85°	4	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1711.0
2.5°	1688.0
5°	1630.5
7.5°	1577.3
10°	1531.3
12.5°	1479.5
15°	1419.1
17.5°	1341.5
20°	1249.5
22.5°	1140.2
25°	1020.9
27.5°	903.0
30°	795.1
32.5°	691.6
35°	590.9
37.5°	498.9
40°	415.5
42.5°	333.6
45°	255.9
47.5°	171.1
50°	112.1
52.5°	70.5
55°	44.6
57.5°	31.6
60°	24.4
62.5°	18.7
65°	14.4
67.5°	11.5
70°	8.6
72.5°	7.2
75°	4.3
77.5°	7.2
80°	5.8
82.5°	5.8
85°	4.3
87.5°	4.3
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)