

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: P643845

Luminaire Tested: ML5615LSWFL559FS1E - 593WB - 1200LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643845  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-51)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSWFL559FS1E - 593WB - 1200LM - 5000K  
Description: ML56 RR, 55D TIR OPTIC, 5" WHITE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

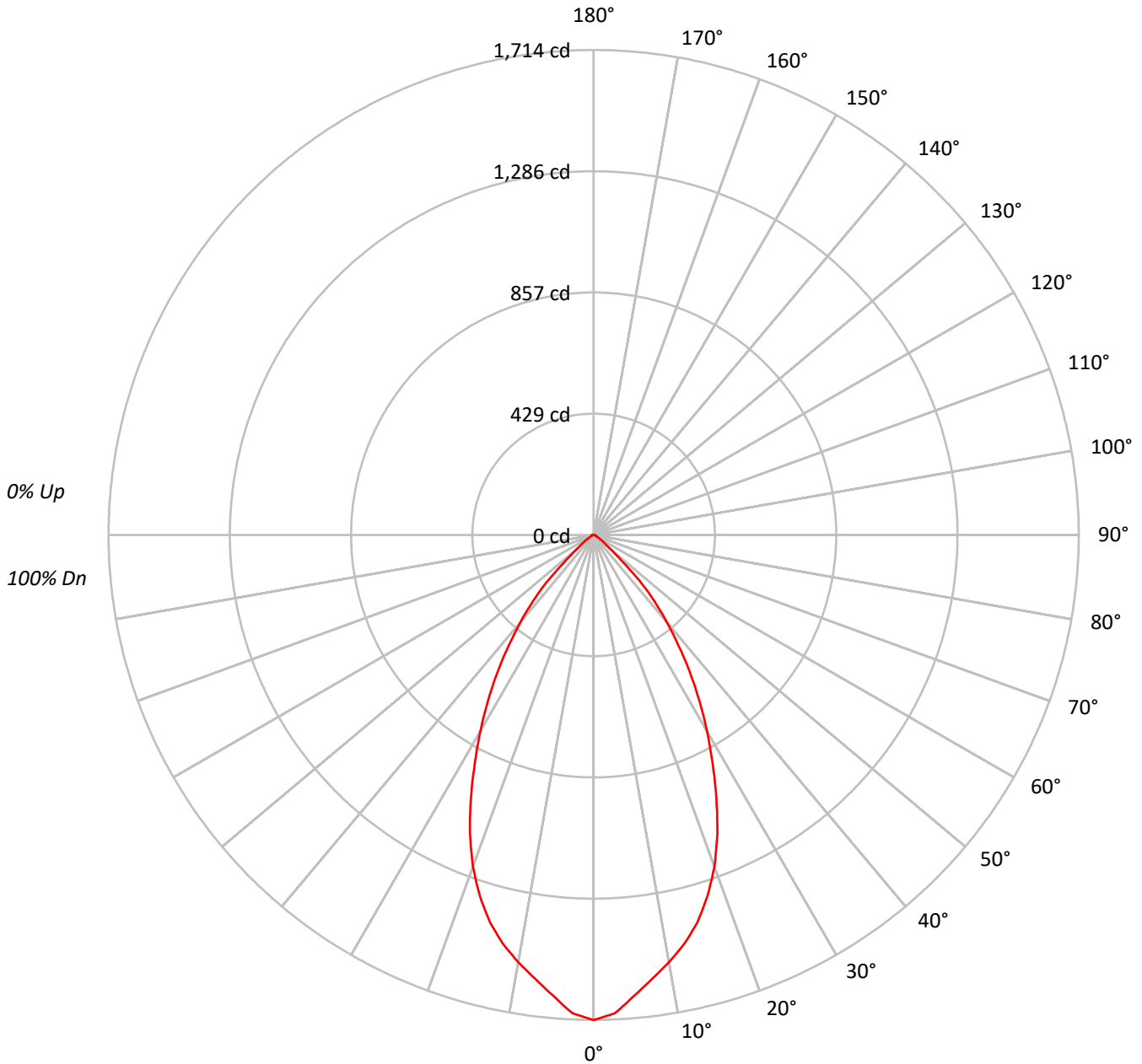
Lumens per Lamp: N/A  
Luminaire Lumens: 1612.4 lumens  
Efficiency: N/A  
Efficacy: 120.3 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

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	111	108	106	103	104	102	100	100	99	97	97	96	94	93				
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85				
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79				
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72				
5	90	81	75	71	89	81	75	70	79	74	70	77	73	69	75	72	68	67				
6	85	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62				
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58				
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54				
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50				
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47				

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

	0°
0°	135344
5°	129593
10°	122907
15°	115789
20°	104757
25°	89323
30°	72895
35°	57108
40°	41354
45°	25688
50°	9186
55°	4955
60°	2495
65°	1887
70°	1985
75°	1769
80°	1955
85°	2627

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 25688 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.0	9.5
10°-20°	394.5	24.5
20°-30°	468.3	29.0
30°-40°	368.8	22.9
40°-50°	173.3	10.7
50°-60°	34.9	2.2
60°-70°	10.5	0.6
70°-80°	6.7	0.4
80°-90°	2.5	0.2
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°	1015.7	63.0
0°-40°	1384.6	85.9
0°-60°	1592.7	98.8
0°-90°	1612.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1612.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1714	
5°	1635	153
15°	1417	394
25°	1026	468
35°	593	369
45°	230	173
55°	36	35
65°	10	10
75°	6	7
85°	3	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1714.5
2.5°	1692.9
5°	1635.4
7.5°	1582.2
10°	1533.3
12.5°	1480.1
15°	1416.8
17.5°	1337.7
20°	1247.0
22.5°	1142.0
25°	1025.5
27.5°	909.0
30°	799.7
32.5°	694.7
35°	592.6
37.5°	491.9
40°	401.3
42.5°	317.9
45°	230.1
47.5°	128.0
50°	74.8
52.5°	51.8
55°	36.0
57.5°	24.5
60°	15.8
62.5°	11.5
65°	10.1
67.5°	8.6
70°	8.6
72.5°	7.2
75°	5.8
77.5°	5.8
80°	4.3
82.5°	2.9
85°	2.9
87.5°	1.4
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)