

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: P643841

Luminaire Tested: ML5615LSWFL559FS1E - 593WB - 1200LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643841  
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 - 2700K  
Description: ML56 RR, 55D TIR OPTIC, 5" WHITE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

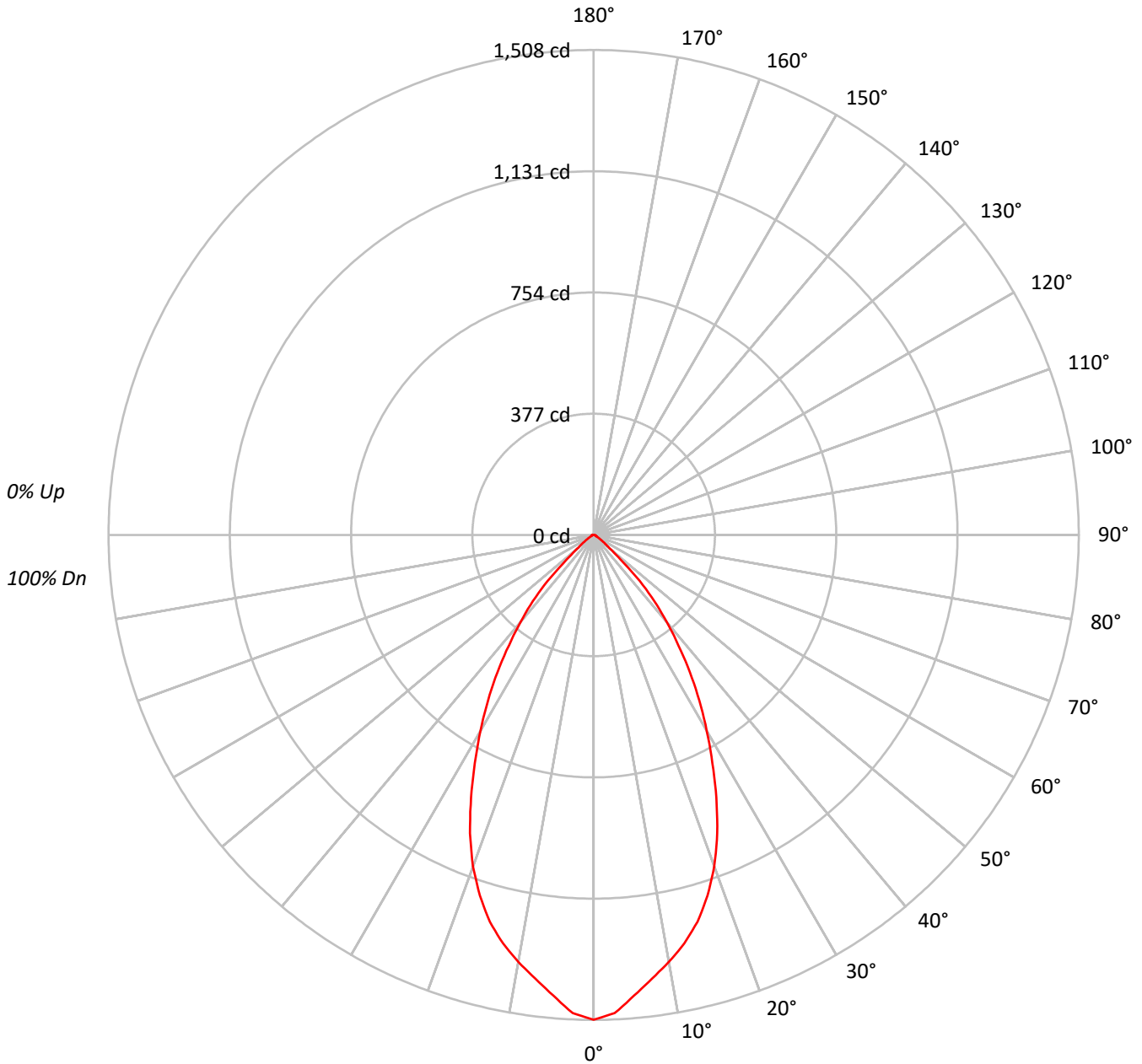
Lumens per Lamp: N/A  
Luminaire Lumens: 1417.8 lumens  
Efficiency: N/A  
Efficacy: 105.8 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

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

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

	0°
0°	119011
5°	113951
10°	108070
15°	101814
20°	92114
25°	78548
30°	64099
35°	50218
40°	36366
45°	22596
50°	8081
55°	4349
60°	2195
65°	1662
70°	1754
75°	1556
80°	1727
85°	2264

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 22596 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.5	9.5
10°-20°	346.9	24.5
20°-30°	411.8	29.0
30°-40°	324.3	22.9
40°-50°	152.4	10.7
50°-60°	30.6	2.2
60°-70°	9.2	0.7
70°-80°	5.9	0.4
80°-90°	2.2	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°	893.2	63.0
0°-40°	1217.5	85.9
0°-60°	1400.5	98.8
0°-90°	1417.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1417.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1508	
5°	1438	135
15°	1246	347
25°	902	412
35°	521	324
45°	202	152
55°	32	31
65°	9	9
75°	5	6
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1507.6
2.5°	1488.6
5°	1438.0
7.5°	1391.2
10°	1348.2
12.5°	1301.4
15°	1245.8
17.5°	1176.2
20°	1096.5
22.5°	1004.2
25°	901.8
27.5°	799.3
30°	703.2
32.5°	610.9
35°	521.1
37.5°	432.5
40°	352.9
42.5°	279.5
45°	202.4
47.5°	112.6
50°	65.8
52.5°	45.5
55°	31.6
57.5°	21.5
60°	13.9
62.5°	10.1
65°	8.9
67.5°	7.6
70°	7.6
72.5°	6.3
75°	5.1
77.5°	5.1
80°	3.8
82.5°	2.5
85°	2.5
87.5°	1.3
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)