

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: P643154

Luminaire Tested: ML5615LSVWFL759FS1E - 593WB - 1200LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643154  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-74)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL759FS1E - 593WB - 1200LM - 4000K  
Description: ML56 RR, 75D TIR OPTIC, 5" WHITE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

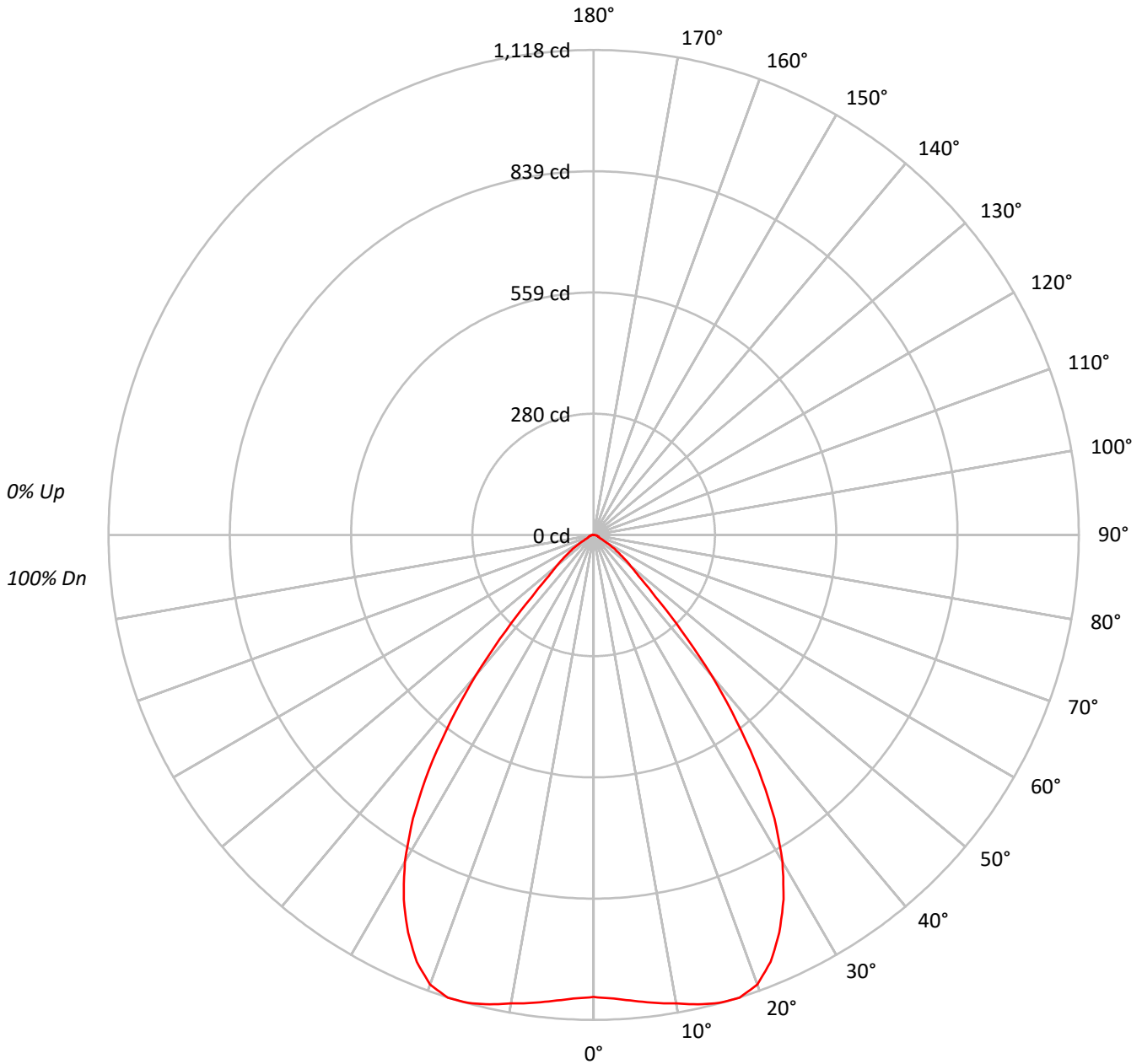
Lumens per Lamp: N/A  
Luminaire Lumens: 1547.1 lumens  
Efficiency: N/A  
Efficacy: 115.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

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	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92			92																
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85	84			84																
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76			76																
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70			70																
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64			64																
6	83	73	66	62	82	72	66	61	71	65	61	69	64	61	68	64	60	59			59																
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	55	54			54																
8	74	63	57	52	73	63	56	52	62	56	52	61	55	51	60	55	51	50			50																
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	46			46																
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43			43																

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

	0°
0°	84096
5°	85447
10°	87926
15°	91296
20°	92635
25°	88156
30°	79285
35°	63873
40°	43405
45°	22473
50°	13767
55°	9097
60°	4547
65°	2690
70°	2654
75°	2623
80°	2637
85°	2627

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 22473 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.5	6.7
10°-20°	315.1	20.4
20°-30°	461.0	29.8
30°-40°	406.5	26.3
40°-50°	172.2	11.1
50°-60°	59.9	3.9
60°-70°	16.7	1.1
70°-80°	9.1	0.6
80°-90°	3.1	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°	879.6	56.9
0°-40°	1286.1	83.1
0°-60°	1518.2	98.1
0°-90°	1547.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1547.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1065	
5°	1078	104
15°	1117	315
25°	1012	461
35°	663	406
45°	201	172
55°	66	60
65°	14	17
75°	9	9
85°	3	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1065.3
2.5°	1069.6
5°	1078.3
7.5°	1088.3
10°	1096.9
12.5°	1108.4
15°	1117.1
17.5°	1118.5
20°	1102.7
22.5°	1065.3
25°	1012.1
27.5°	947.4
30°	869.8
32.5°	774.9
35°	662.8
37.5°	540.6
40°	421.2
42.5°	299.0
45°	201.3
47.5°	139.5
50°	112.1
52.5°	86.3
55°	66.1
57.5°	47.4
60°	28.8
62.5°	20.1
65°	14.4
67.5°	12.9
70°	11.5
72.5°	10.1
75°	8.6
77.5°	7.2
80°	5.8
82.5°	4.3
85°	2.9
87.5°	1.4
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)