

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: P643379

Luminaire Tested: ML5615LSVWFL759FS1E - 696WB - 1200LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643379  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-92)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL759FS1E - 696WB - 1200LM - 4000K  
Description: ML56 RR, 75D TIR OPTIC, 6" SHALLOW WHITE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1577.3 lumens  
Efficiency: N/A  
Efficacy: 117.7 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

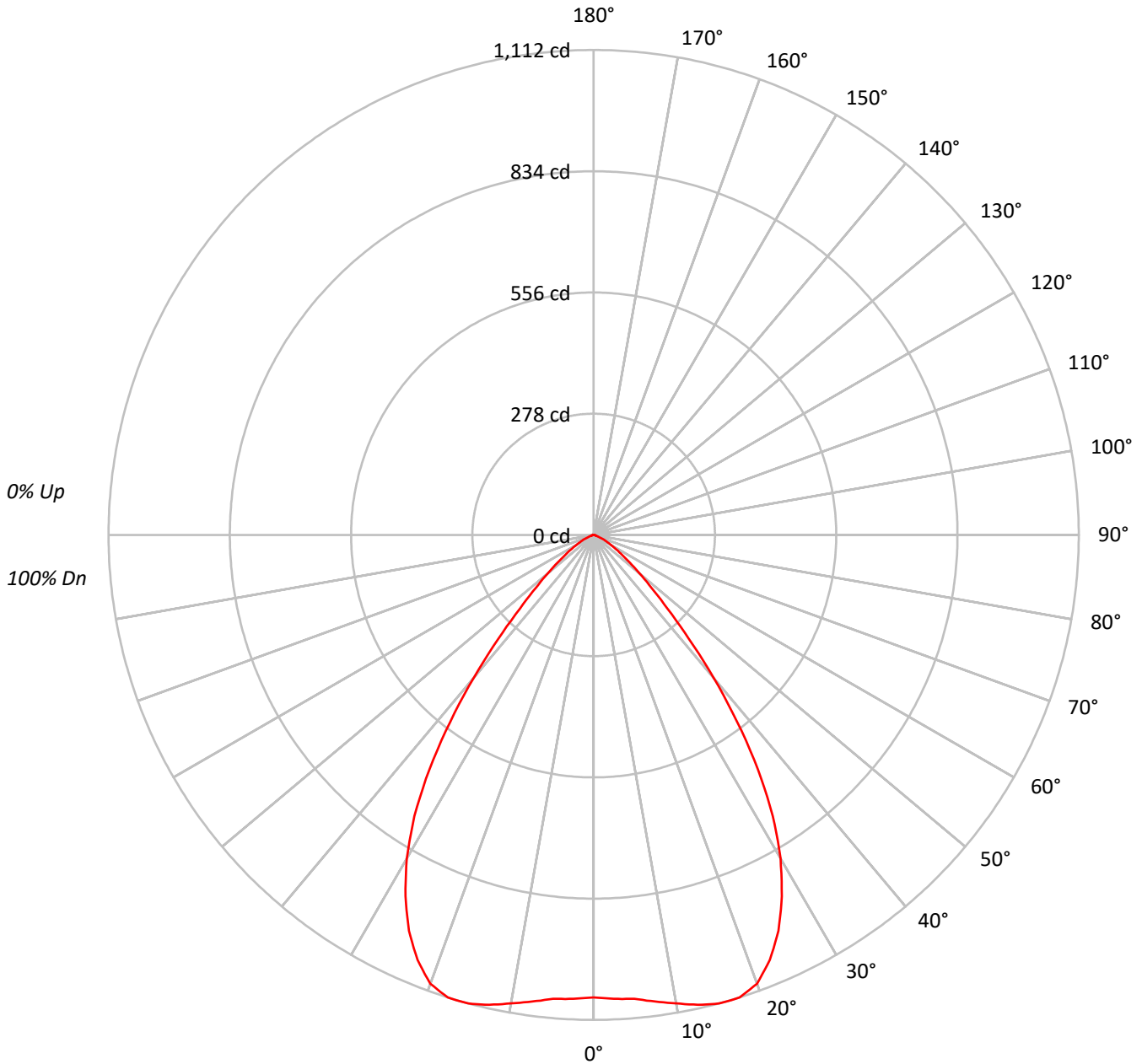
Input Watts (W): 13.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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									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	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	104	110	107	105	103	103	101	99	99	98	96	96	95	94	92	92	92	90	87	85	83	83	80	77	76	76																
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	90	87	85	83	83	80	77	76	76	76	76	76	76	76	76																
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	77	76	76	76	76	76	76	76	76	76	76	76	76																
4	94	85	79	74	92	84	78	73	81	76	72	79	75	71	77	74	71	69	69	69	69	69	69	69	69	69	69	69	69																
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63	63	63	63	63	63	63	63	63	63	63	63																
6	83	73	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58	58	58	58	58	58	58	58	58	58	58	58																
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	55	53	53	53	53	53	53	53	53	53	53	53	53																
8	73	63	56	51	72	62	56	51	61	55	51	60	54	51	59	54	50	49	49	49	49	49	49	49	49	49	49	49	49																
9	69	58	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45	45	45	45	45	45	45	45	45	45	45	45																
10	66	55	48	44	64	54	48	44	53	48	44	52	47	43	52	47	43	42	42	42	42	42	42	42	42	42	42	42	42																

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

	0°
0°	58137
5°	58755
10°	60715
15°	63127
20°	63881
25°	60584
30°	54217
35°	43948
40°	30543
45°	18490
50°	11769
55°	7551
60°	5043
65°	3360
70°	1619
75°	911
80°	916
85°	881

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18490 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.8	6.5
10°-20°	313.4	19.9
20°-30°	455.7	28.9
30°-40°	403.5	25.6
40°-50°	194.9	12.4
50°-60°	74.3	4.7
60°-70°	25.6	1.6
70°-80°	5.1	0.3
80°-90°	1.9	0.1
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°	871.9	55.3
0°-40°	1275.4	80.9
0°-60°	1544.6	97.9
0°-90°	1577.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1577.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1060	
5°	1068	103
15°	1112	313
25°	1002	456
35°	657	403
45°	238	195
55°	79	74
65°	26	26
75°	4	5
85°	1	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1060.5
2.5°	1064.8
5°	1067.7
7.5°	1079.2
10°	1090.7
12.5°	1103.6
15°	1112.3
17.5°	1112.3
20°	1095.0
22.5°	1054.8
25°	1001.6
27.5°	934.1
30°	856.5
32.5°	764.5
35°	656.7
37.5°	540.3
40°	426.8
42.5°	323.3
45°	238.5
47.5°	178.2
50°	138.0
52.5°	104.9
55°	79.0
57.5°	58.9
60°	46.0
62.5°	34.5
65°	25.9
67.5°	15.8
70°	10.1
72.5°	5.7
75°	4.3
77.5°	2.9
80°	2.9
82.5°	2.9
85°	1.4
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)