

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: P643389

Luminaire Tested: ML5615LSVWFL759FS1E - 696WB - 900LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643389  
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 - 900LM - 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: 1247.1 lumens  
Efficiency: N/A  
Efficacy: 118.8 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

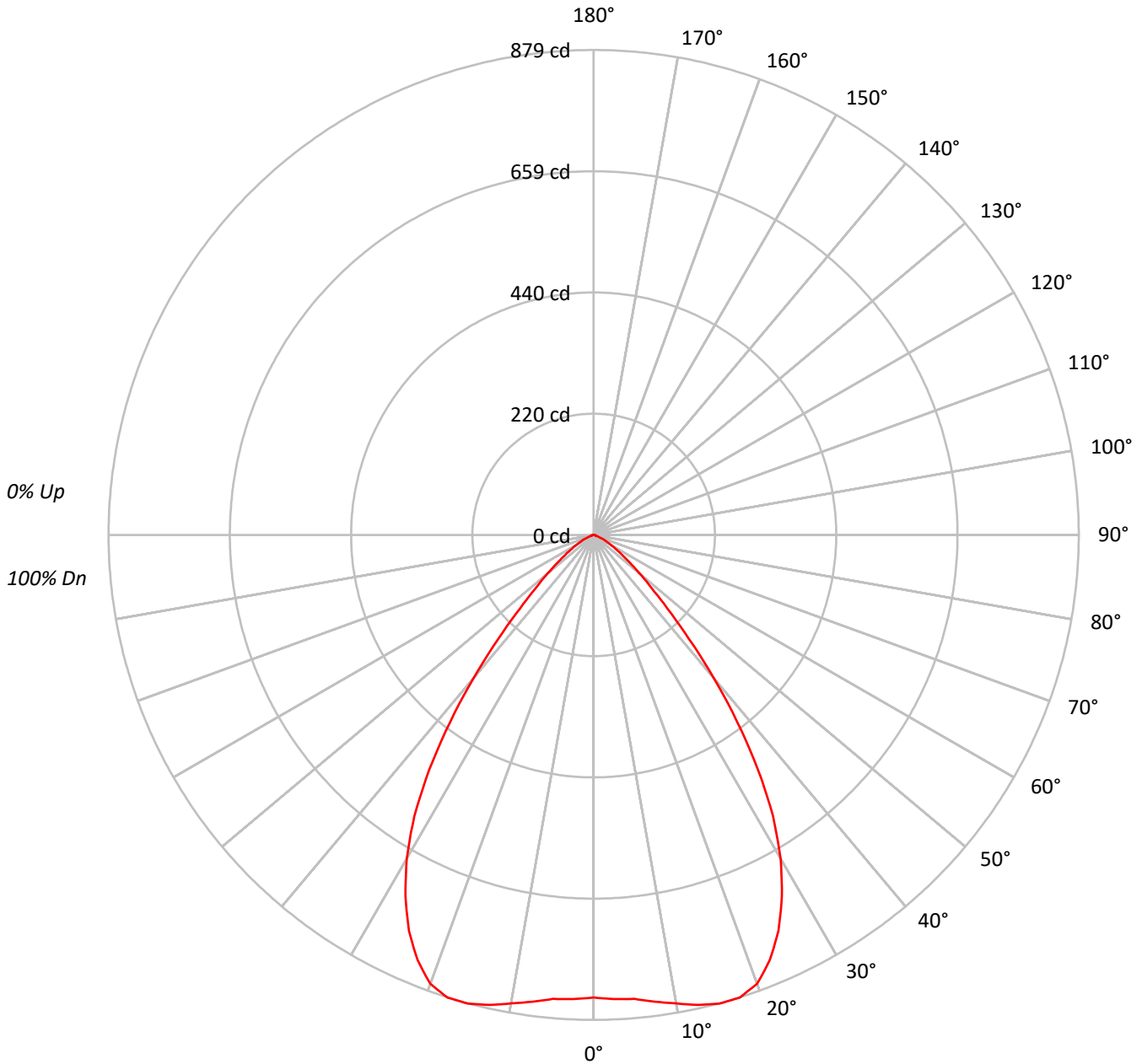
Input Watts (W): 10.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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

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

	0°
0°	45967
5°	46456
10°	48006
15°	49909
20°	50509
25°	47900
30°	42867
35°	34753
40°	24152
45°	14622
50°	9305
55°	5974
60°	3991
65°	2659
70°	1282
75°	720
80°	726
85°	692

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14622 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.2	6.5
10°-20°	247.8	19.9
20°-30°	360.3	28.9
30°-40°	319.0	25.6
40°-50°	154.1	12.4
50°-60°	58.8	4.7
60°-70°	20.3	1.6
70°-80°	4.0	0.3
80°-90°	1.5	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°	689.4	55.3
0°-40°	1008.4	80.9
0°-60°	1221.3	97.9
0°-90°	1247.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1247.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	838	
5°	844	81
15°	879	248
25°	792	360
35°	519	319
45°	189	154
55°	62	59
65°	20	20
75°	3	4
85°	1	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	838.5
2.5°	841.9
5°	844.2
7.5°	853.3
10°	862.4
12.5°	872.6
15°	879.4
17.5°	879.4
20°	865.8
22.5°	834.0
25°	791.9
27.5°	738.5
30°	677.2
32.5°	604.5
35°	519.3
37.5°	427.2
40°	337.5
42.5°	255.6
45°	188.6
47.5°	140.9
50°	109.1
52.5°	82.9
55°	62.5
57.5°	46.6
60°	36.4
62.5°	27.3
65°	20.5
67.5°	12.5
70°	8.0
72.5°	4.5
75°	3.4
77.5°	2.3
80°	2.3
82.5°	2.3
85°	1.1
87.5°	1.1
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)