

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: P643309

Luminaire Tested: ML5615LSVWFL759FS1E - 693SNB - 1500LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643309  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-88)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL759FS1E - 693SNB - 1500LM - 4000K  
Description: ML56 RR, 75D TIR OPTIC, 6" SATIN NICKLE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1898.5 lumens  
Efficiency: N/A  
Efficacy: 111.0 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

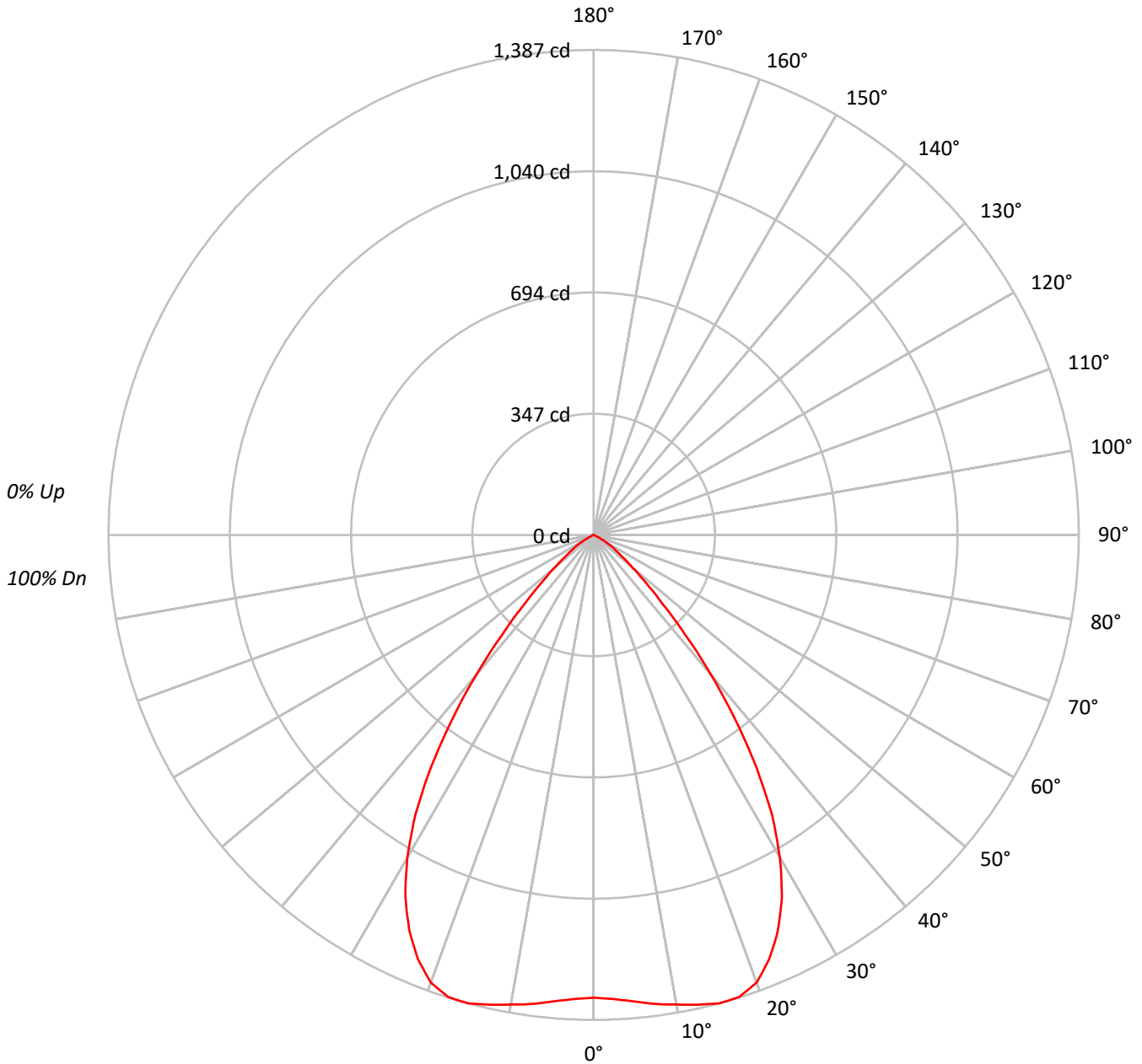
Input Watts (W): 17.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	110	108	105	103	104	102	100	100	98	97	96	95	94	92			92																
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84			84																
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77			77																
4	94	86	80	75	92	85	79	75	83	78	74	81	76	73	79	75	72	70			70																
5	89	80	73	68	87	79	72	68	77	71	67	75	70	67	73	69	66	64			64																
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	68	64	61	59			59																
7	79	68	62	57	77	68	61	57	66	61	57	65	60	56	64	59	56	54			54																
8	74	64	57	53	73	63	57	52	62	56	52	61	56	52	60	55	52	50			50																
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	51	48	46			46																
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43			43																

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

	0°
0°	72544
5°	73696
10°	75928
15°	78718
20°	79469
25°	75440
30°	67415
35°	54221
40°	37220
45°	21669
50°	12375
55°	7436
60°	4079
65°	1141
70°	289
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 21669 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.7	6.8
10°-20°	390.7	20.6
20°-30°	567.6	29.9
30°-40°	498.0	26.2
40°-50°	228.9	12.1
50°-60°	72.7	3.8
60°-70°	11.6	0.6
70°-80°	0.2	0.0
80°-90°	0.0	0.0
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°	1086.9	57.3
0°-40°	1584.9	83.5
0°-60°	1886.6	99.4
0°-90°	1898.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1898.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1323	
5°	1339	129
15°	1387	391
25°	1247	568
35°	810	498
45°	280	229
55°	78	73
65°	9	12
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1323.3
2.5°	1328.6
5°	1339.2
7.5°	1353.3
10°	1364.0
12.5°	1376.3
15°	1387.0
17.5°	1385.2
20°	1362.2
22.5°	1312.7
25°	1247.2
27.5°	1165.8
30°	1065.0
32.5°	948.2
35°	810.2
37.5°	663.4
40°	520.1
42.5°	389.2
45°	279.5
47.5°	201.7
50°	145.1
52.5°	102.6
55°	77.8
57.5°	56.6
60°	37.2
62.5°	17.7
65°	8.8
67.5°	1.8
70°	1.8
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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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(END OF REPORT)