

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: P643338

Luminaire Tested: ML5615LSVWFL759FS1E - 693WB - 1500LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643338  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-86)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL759FS1E - 693WB - 1500LM - 3500K  
Description: ML56 RR, 75D TIR OPTIC, 6" WHITE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

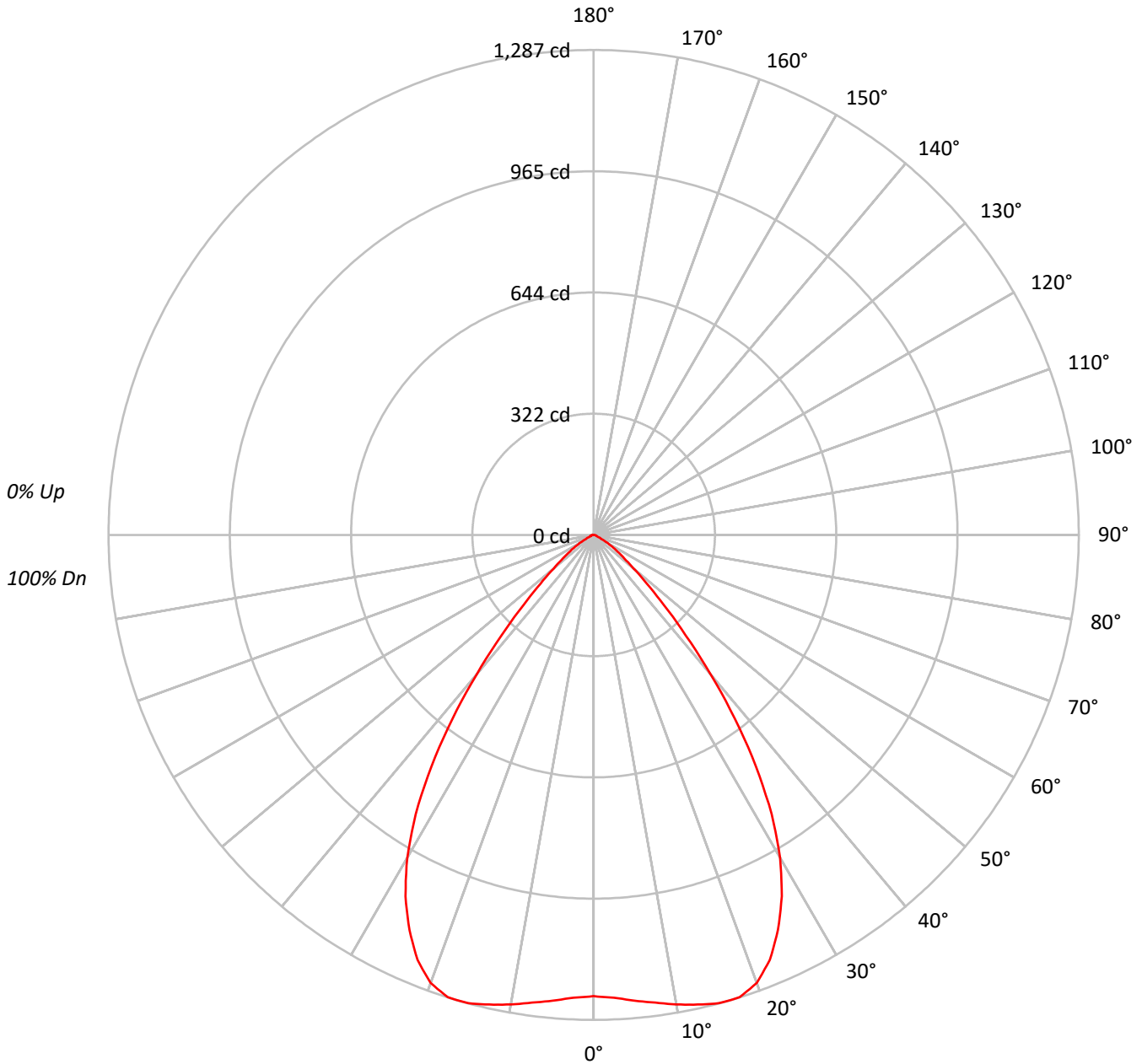
Lumens per Lamp: N/A  
Luminaire Lumens: 1785.8 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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				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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84	84	84	84
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76	76	76	76
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70	70	70	70
5	88	79	72	67	87	78	72	67	76	71	67	74	70	66	73	69	65	64	64	64	64
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58	58	58	58
7	78	68	61	56	77	67	61	56	66	60	56	65	59	56	63	59	55	54	54	54	54
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50	50	50	50
9	70	59	52	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46	46	46	46
10	66	55	49	45	65	55	49	44	54	48	44	53	48	44	52	48	44	43	43	43	43

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

	0°
0°	67111
5°	68270
10°	70428
15°	73020
20°	73810
25°	69972
30°	62617
35°	50253
40°	34572
45°	20382
50°	11769
55°	7378
60°	4506
65°	2127
70°	1314
75°	1398
80°	1547
85°	1006

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20382 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.2	6.7
10°-20°	362.6	20.3
20°-30°	526.9	29.5
30°-40°	462.1	25.9
40°-50°	214.3	12.0
50°-60°	72.7	4.1
60°-70°	18.2	1.0
70°-80°	7.4	0.4
80°-90°	2.4	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°	1008.7	56.5
0°-40°	1470.8	82.4
0°-60°	1757.8	98.4
0°-90°	1785.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1785.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1224	
5°	1241	119
15°	1287	363
25°	1157	527
35°	751	462
45°	263	214
55°	77	73
65°	16	18
75°	7	7
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1224.2
2.5°	1229.1
5°	1240.6
7.5°	1252.1
10°	1265.2
12.5°	1276.7
15°	1286.6
17.5°	1286.6
20°	1265.2
22.5°	1220.9
25°	1156.8
27.5°	1081.2
30°	989.2
32.5°	879.1
35°	750.9
37.5°	616.2
40°	483.1
42.5°	361.5
45°	262.9
47.5°	190.6
50°	138.0
52.5°	101.9
55°	77.2
57.5°	59.2
60°	41.1
62.5°	23.0
65°	16.4
67.5°	9.9
70°	8.2
72.5°	8.2
75°	6.6
77.5°	6.6
80°	4.9
82.5°	3.3
85°	1.6
87.5°	1.6
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)