

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: P643048

Luminaire Tested: ML5615LSVWFL759FS1E - 591WB - 1200LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643048  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-70)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL759FS1E - 591WB - 1200LM - 3500K  
Description: ML56 RR, 75D TIR OPTIC, 5" DEADFRONT TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1453.9 lumens  
Efficiency: N/A  
Efficacy: 108.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

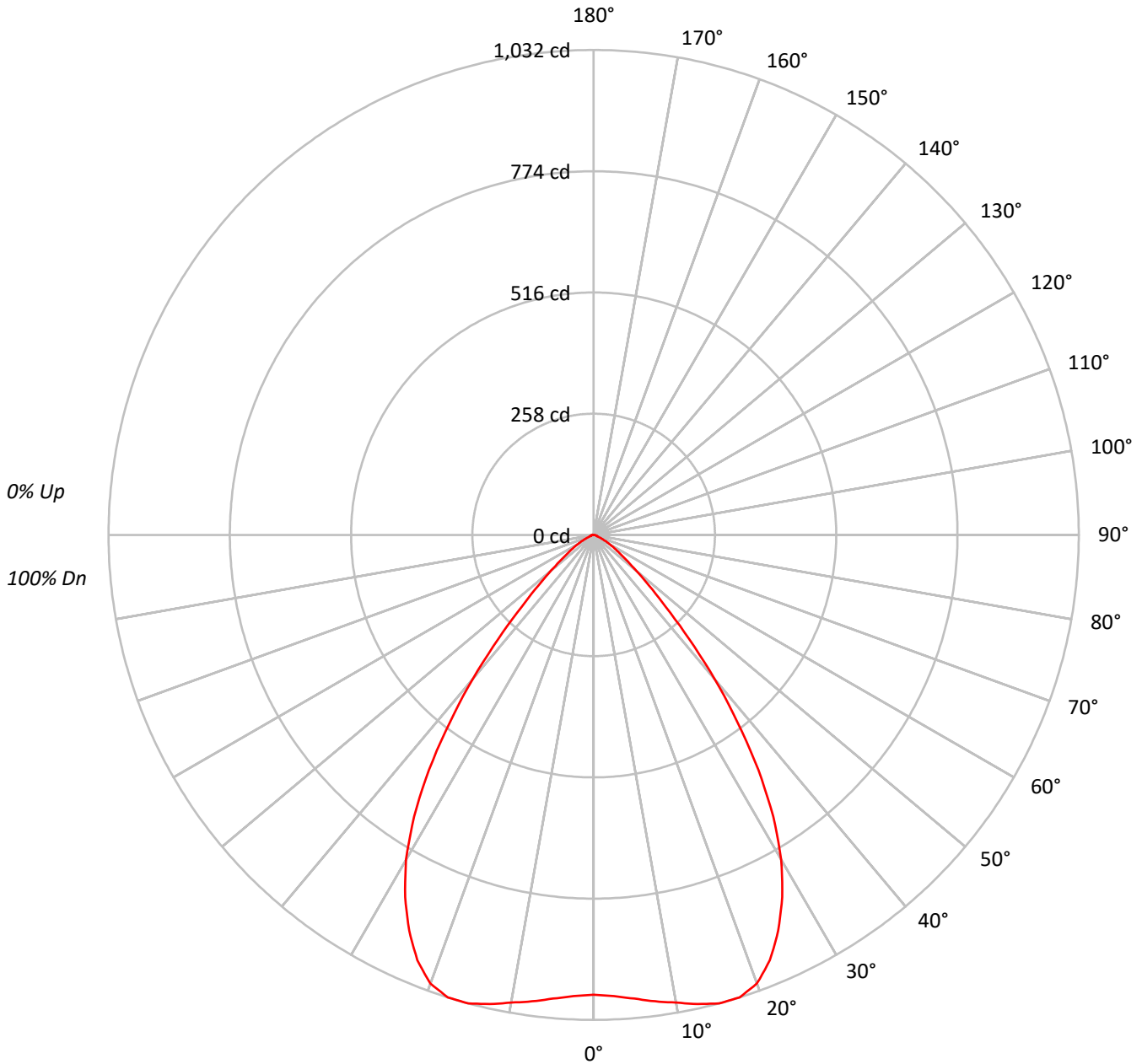
Input Watts (W): 13.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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				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
1	113	110	107	104	110	107	105	103	103	101	99	99	98	96	96	95	94	92			92
2	106	101	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83			83
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			76
4	94	85	79	74	92	84	78	73	82	77	73	80	75	72	78	74	71	69			69
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63			63
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	60	58			58
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53			53
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49			49
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45			45
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42			42

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

	0°
0°	53636
5°	54501
10°	56250
15°	58564
20°	59260
25°	56187
30°	50514
35°	40877
40°	28596
45°	16785
50°	10030
55°	6260
60°	4254
65°	2426
70°	1282
75°	1123
80°	1263
85°	1698

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16785 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.2	6.5
10°-20°	290.7	20.0
20°-30°	423.4	29.1
30°-40°	375.6	25.8
40°-50°	177.8	12.2
50°-60°	62.2	4.3
60°-70°	20.2	1.4
70°-80°	6.1	0.4
80°-90°	2.7	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°	809.2	55.7
0°-40°	1184.9	81.5
0°-60°	1424.8	98.0
0°-90°	1453.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1453.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	978	
5°	990	95
15°	1032	291
25°	929	423
35°	611	376
45°	216	178
55°	66	62
65°	19	20
75°	5	6
85°	3	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	978.4
2.5°	982.4
5°	990.4
7.5°	1001.1
10°	1010.5
12.5°	1022.5
15°	1031.9
17.5°	1031.9
20°	1015.8
22.5°	979.7
25°	928.9
27.5°	868.8
30°	798.0
32.5°	711.1
35°	610.8
37.5°	502.6
40°	399.6
42.5°	299.4
45°	216.5
47.5°	159.1
50°	117.6
52.5°	85.5
55°	65.5
57.5°	50.8
60°	38.8
62.5°	28.1
65°	18.7
67.5°	12.0
70°	8.0
72.5°	6.7
75°	5.3
77.5°	5.3
80°	4.0
82.5°	4.0
85°	2.7
87.5°	1.3
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)