

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: P643109

Luminaire Tested: ML5615LSVWFL759FS1E - 593BB - 1200LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643109  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-75)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL759FS1E - 593BB - 1200LM - 4000K  
Description: ML56 RR, 75D TIR OPTIC, 5" BLACK BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1476.6 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

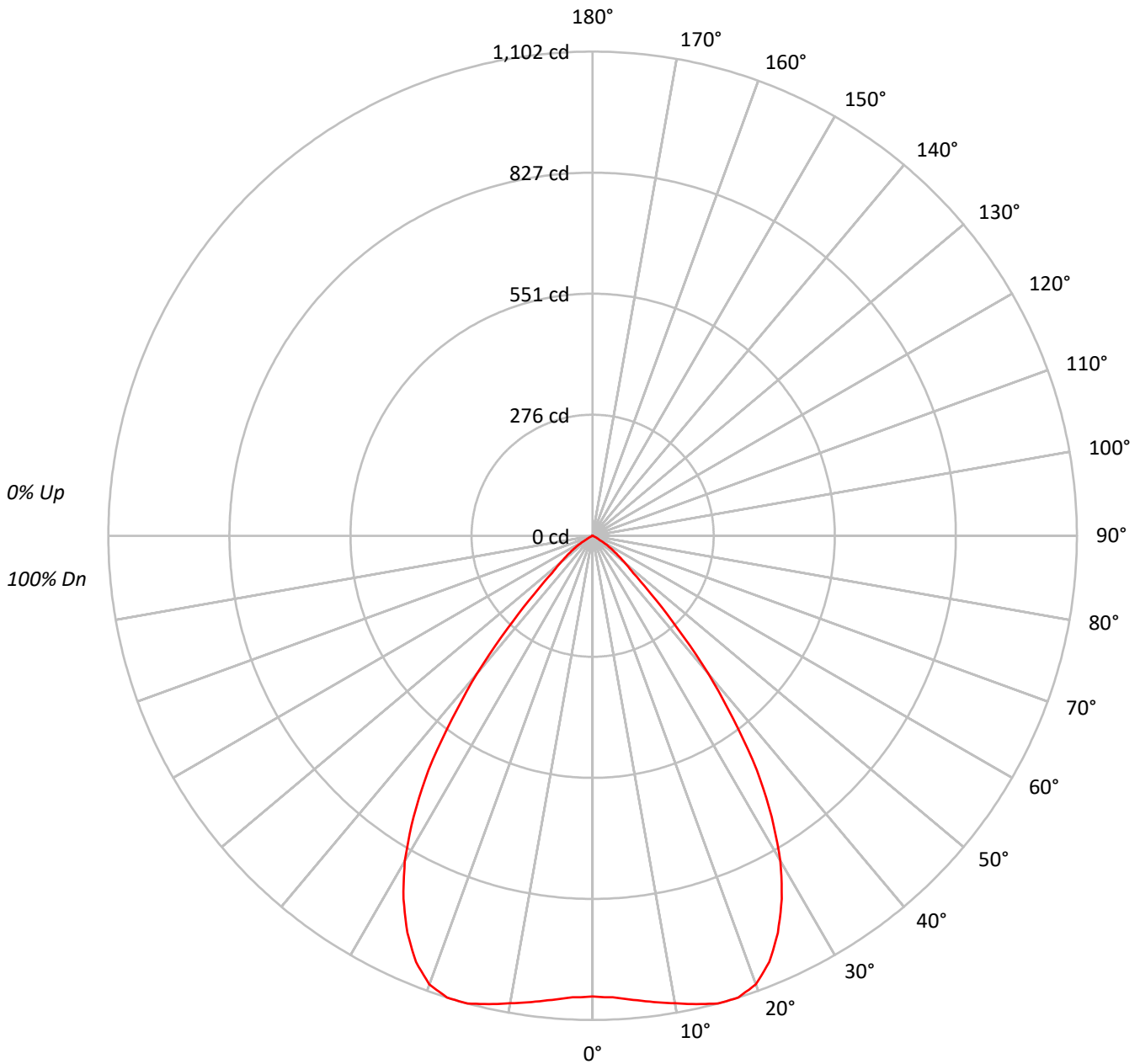
Input Watts (W): 13.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92			92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85			85
3	101	94	88	84	99	92	87	83	90	85	82	87	83	81	85	82	79	78			78
4	95	87	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71			71
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65			65
6	84	74	68	63	83	74	67	63	72	66	62	71	66	62	69	65	61	60			60
7	79	69	63	58	78	68	62	58	67	62	57	66	61	57	65	60	57	55			55
8	75	64	58	53	74	64	58	53	63	57	53	62	57	53	61	56	53	51			51
9	71	60	54	49	70	60	54	49	59	53	49	58	53	49	57	52	49	47			47
10	67	56	50	46	66	56	50	46	55	50	46	54	49	46	54	49	45	44			44

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

	0°
0°	82793
5°	84021
10°	86603
15°	90062
20°	91249
25°	86840
30°	77899
35°	62804
40°	42106
45°	21044
50°	11839
55°	7129
60°	2495
65°	262
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 21044 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.9	6.9
10°-20°	310.5	21.0
20°-30°	453.9	30.7
30°-40°	397.5	26.9
40°-50°	161.4	10.9
50°-60°	47.1	3.2
60°-70°	4.3	0.3
70°-80°	0.0	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°	866.3	58.7
0°-40°	1263.8	85.6
0°-60°	1472.3	99.7
0°-90°	1476.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1476.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1049	
5°	1060	102
15°	1102	311
25°	997	454
35°	652	398
45°	188	161
55°	52	47
65°	1	4
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1048.8
2.5°	1051.6
5°	1060.3
7.5°	1070.4
10°	1080.4
12.5°	1091.9
15°	1102.0
17.5°	1102.0
20°	1086.2
22.5°	1050.2
25°	997.0
27.5°	932.2
30°	854.6
32.5°	758.2
35°	651.7
37.5°	525.1
40°	408.6
42.5°	284.9
45°	188.5
47.5°	125.2
50°	96.4
52.5°	71.9
55°	51.8
57.5°	33.1
60°	15.8
62.5°	8.6
65°	1.4
67.5°	0.0
70°	0.0
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)