

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: P643226

Luminaire Tested: ML5615LSVWFL759FS1E - 691WB - 1200LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643226  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-82)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL759FS1E - 691WB - 1200LM - 2700K  
Description: ML56 RR, 75D TIR OPTIC, 6" DEADFRONT TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1382.4 lumens  
Efficiency: N/A  
Efficacy: 103.2 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

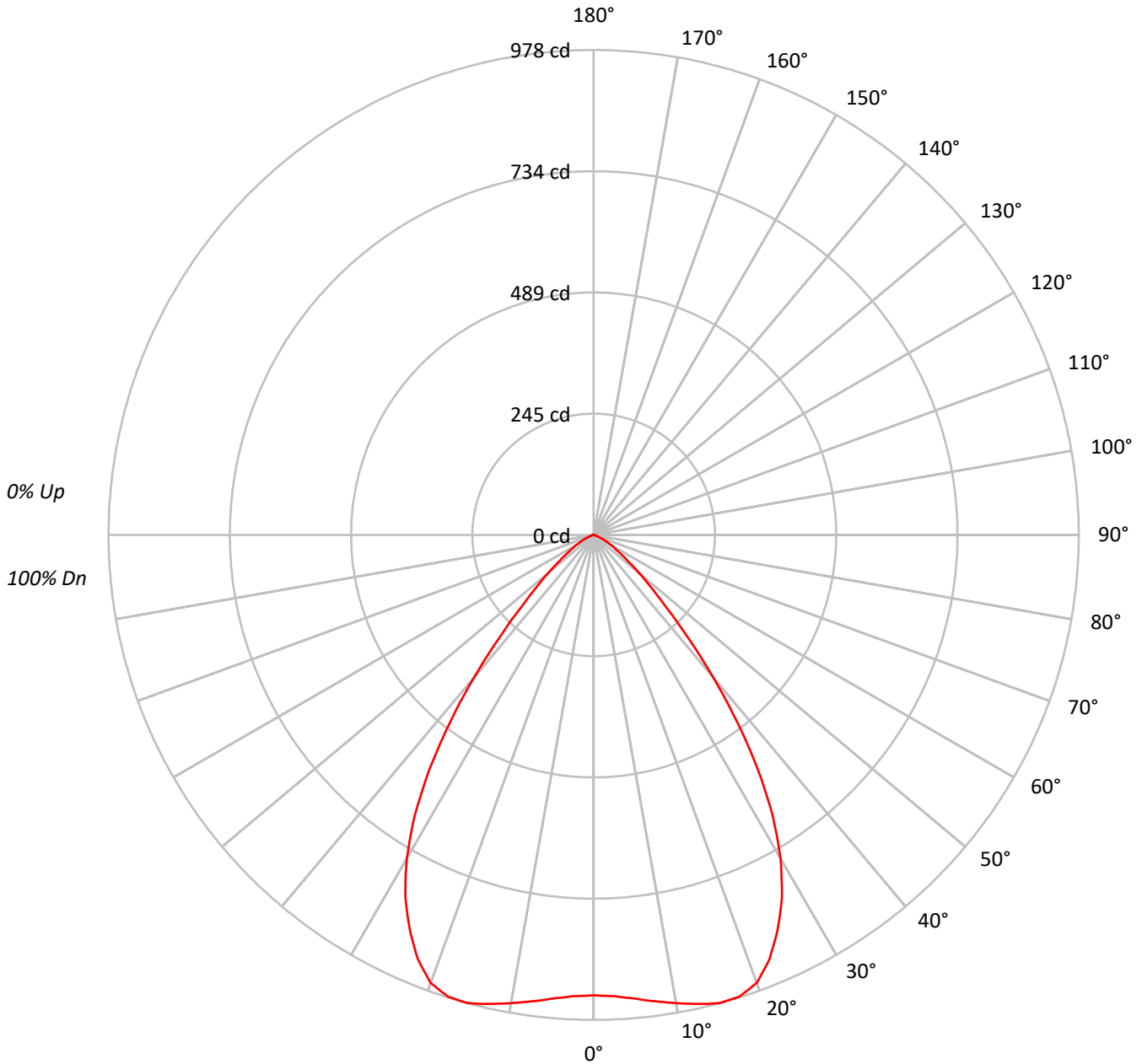
Input Watts (W): 13.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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			
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92			
2	106	100	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			
4	94	85	79	74	92	84	78	73	82	76	72	79	75	72	78	74	71	69			
5	88	78	72	67	86	77	71	67	76	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	61	56	76	67	60	56	65	59	55	64	59	55	63	58	55	53			
8	73	63	56	51	72	62	56	51	61	55	51	60	55	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	65	54	48	44	53	48	44	53	47	44	52	47	43	42			

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

	0°
0°	50895
5°	51645
10°	53372
15°	55488
20°	56081
25°	53096
30°	47723
35°	38601
40°	26793
45°	16079
50°	10251
55°	6404
60°	4298
65°	2789
70°	1427
75°	805
80°	789
85°	818

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16079 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.3	6.5
10°-20°	275.3	19.9
20°-30°	400.3	29.0
30°-40°	354.4	25.6
40°-50°	170.3	12.3
50°-60°	63.4	4.6
60°-70°	21.8	1.6
70°-80°	4.8	0.4
80°-90°	1.7	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°	765.8	55.4
0°-40°	1120.3	81.0
0°-60°	1354.0	97.9
0°-90°	1382.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1382.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	928	
5°	938	90
15°	978	275
25°	878	400
35°	577	354
45°	207	170
55°	67	63
65°	22	22
75°	4	5
85°	1	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	928.4
2.5°	930.9
5°	938.5
7.5°	948.7
10°	958.8
12.5°	968.9
15°	977.7
17.5°	976.5
20°	961.3
22.5°	925.9
25°	877.8
27.5°	822.2
30°	753.9
32.5°	671.6
35°	576.8
37.5°	474.3
40°	374.4
42.5°	282.1
45°	207.4
47.5°	156.8
50°	120.2
52.5°	88.5
55°	67.0
57.5°	50.6
60°	39.2
62.5°	30.4
65°	21.5
67.5°	12.6
70°	8.9
72.5°	5.1
75°	3.8
77.5°	3.8
80°	2.5
82.5°	2.5
85°	1.3
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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Scaled Data Report



(END OF REPORT)