

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: P643333

Luminaire Tested: ML5615LSVWFL759FS1E - 693WB - 1200LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643333  
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 - 1200LM - 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: 1452.5 lumens  
Efficiency: N/A  
Efficacy: 108.4 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

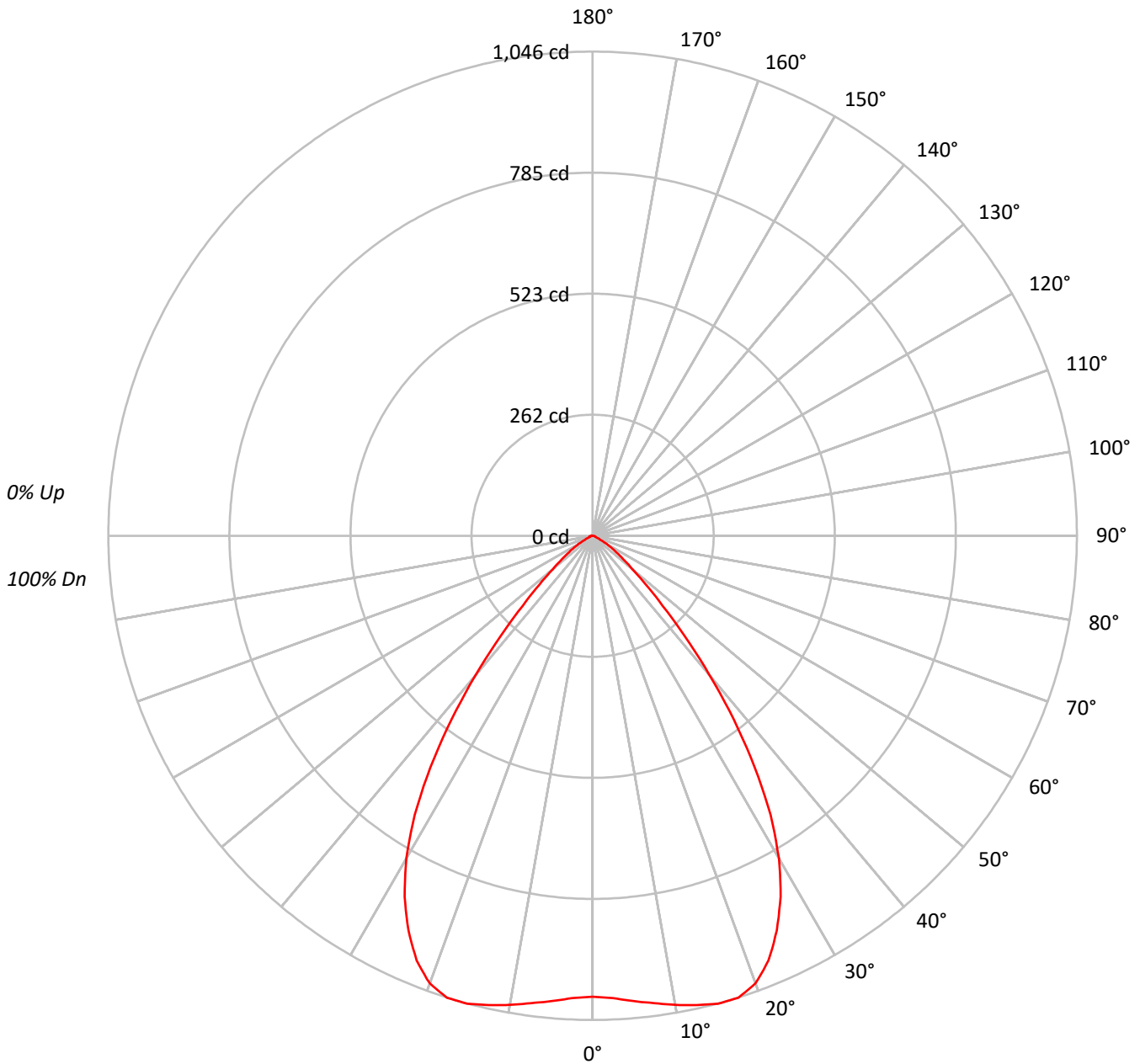
Input Watts (W): 13.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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

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

	0°
0°	54584
5°	55530
10°	57286
15°	59393
20°	60036
25°	56913
30°	50932
35°	40877
40°	28117
45°	16575
50°	9578
55°	6002
60°	3662
65°	1738
70°	1074
75°	1123
80°	1263
85°	818

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16575 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.9	6.7
10°-20°	294.9	20.3
20°-30°	428.6	29.5
30°-40°	375.9	25.9
40°-50°	174.3	12.0
50°-60°	59.2	4.1
60°-70°	14.8	1.0
70°-80°	6.0	0.4
80°-90°	2.0	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°	820.5	56.5
0°-40°	1196.3	82.4
0°-60°	1429.8	98.4
0°-90°	1452.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1452.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	996	
5°	1009	97
15°	1046	295
25°	941	429
35°	611	376
45°	214	174
55°	63	59
65°	13	15
75°	5	6
85°	1	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	995.7
2.5°	999.7
5°	1009.1
7.5°	1018.4
10°	1029.1
12.5°	1038.5
15°	1046.5
17.5°	1046.5
20°	1029.1
22.5°	993.1
25°	940.9
27.5°	879.4
30°	804.6
32.5°	715.1
35°	610.8
37.5°	501.2
40°	392.9
42.5°	294.0
45°	213.8
47.5°	155.0
50°	112.3
52.5°	82.9
55°	62.8
57.5°	48.1
60°	33.4
62.5°	18.7
65°	13.4
67.5°	8.0
70°	6.7
72.5°	6.7
75°	5.3
77.5°	5.3
80°	4.0
82.5°	2.7
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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(END OF REPORT)