

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: P643274

Luminaire Tested: ML5615LSVWFL759FS1E - 692W - 1200LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643274  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-85)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL759FS1E - 692W - 1200LM - 4000K  
Description: ML56 RR, 75D TIR OPTIC, 6" WHITE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

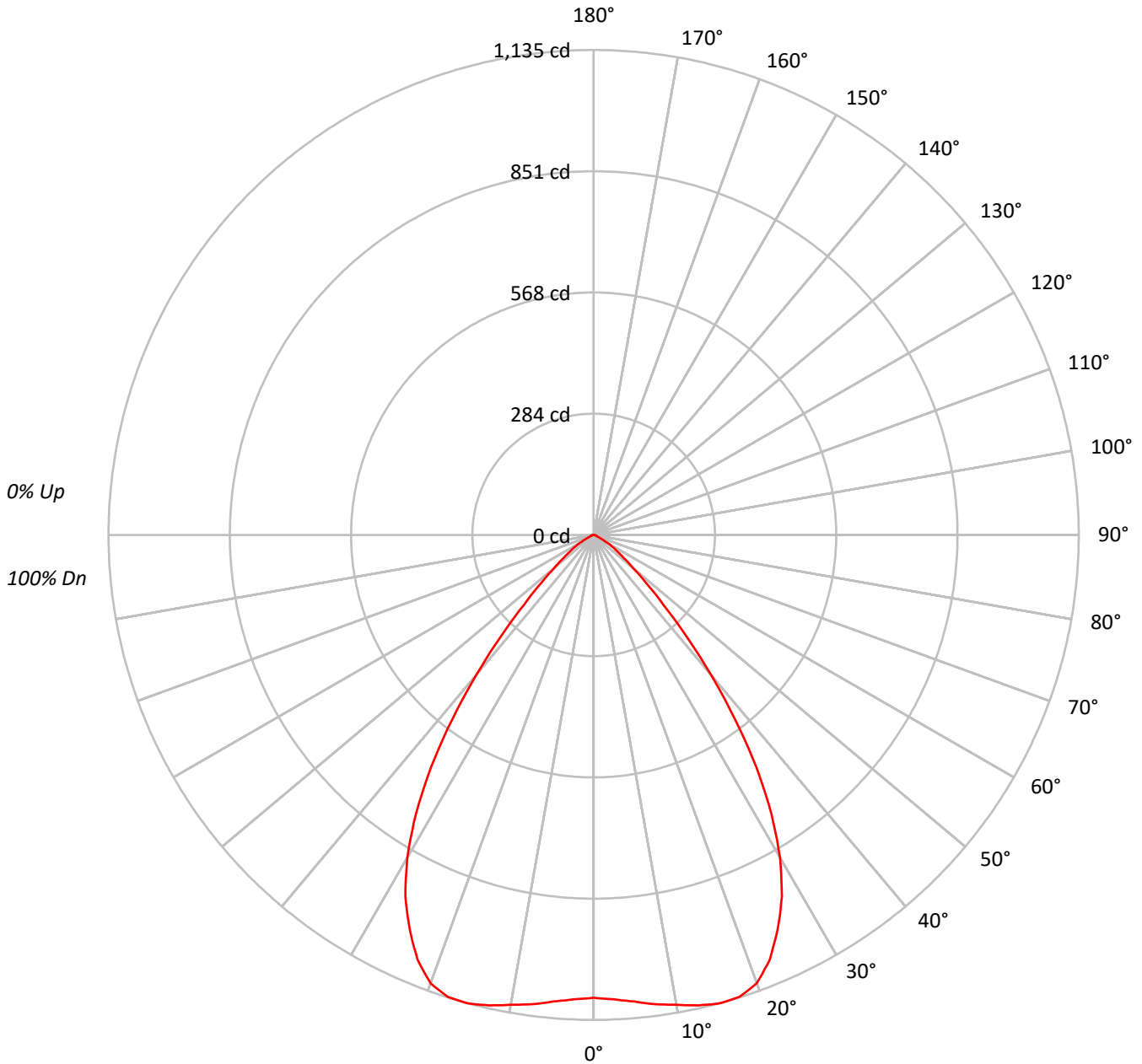
Lumens per Lamp: N/A  
Luminaire Lumens: 1573.0 lumens  
Efficiency: N/A  
Efficacy: 117.4 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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	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	68	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	61	68	64	60	58					58			
7	78	68	61	56	77	67	61	56	66	60	56	65	60	56	63	59	55	54					54			
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50					50			
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46					46			
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43					43			

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

	0°
0°	59392
5°	60334
10°	62151
15°	64427
20°	65135
25°	61618
30°	55192
35°	44390
40°	30479
45°	17847
50°	10311
55°	6604
60°	3947
65°	1868
70°	1154
75°	1228
80°	916
85°	881

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17847 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.3	6.7
10°-20°	319.9	20.3
20°-30°	464.5	29.5
30°-40°	407.3	25.9
40°-50°	188.2	12.0
50°-60°	64.0	4.1
60°-70°	16.3	1.0
70°-80°	5.9	0.4
80°-90°	1.6	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°	889.8	56.6
0°-40°	1297.1	82.5
0°-60°	1549.3	98.5
0°-90°	1573.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1573.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1083	
5°	1096	105
15°	1135	320
25°	1019	465
35°	663	407
45°	230	188
55°	69	64
65°	14	16
75°	6	6
85°	1	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1083.4
2.5°	1087.7
5°	1096.4
7.5°	1107.9
10°	1116.5
12.5°	1128.0
15°	1135.2
17.5°	1133.8
20°	1116.5
22.5°	1076.2
25°	1018.7
27.5°	953.9
30°	871.9
32.5°	774.1
35°	663.3
37.5°	542.4
40°	425.9
42.5°	318.0
45°	230.2
47.5°	166.9
50°	120.9
52.5°	89.2
55°	69.1
57.5°	51.8
60°	36.0
62.5°	21.6
65°	14.4
67.5°	8.6
70°	7.2
72.5°	7.2
75°	5.8
77.5°	4.3
80°	2.9
82.5°	2.9
85°	1.4
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)