

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: P643349

Luminaire Tested: ML5615LSVWFL759FS1E - 694TBZB - 1200LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643349  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-91)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL759FS1E - 694TBZB - 1200LM - 4000K  
Description: ML56 RR, 75D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

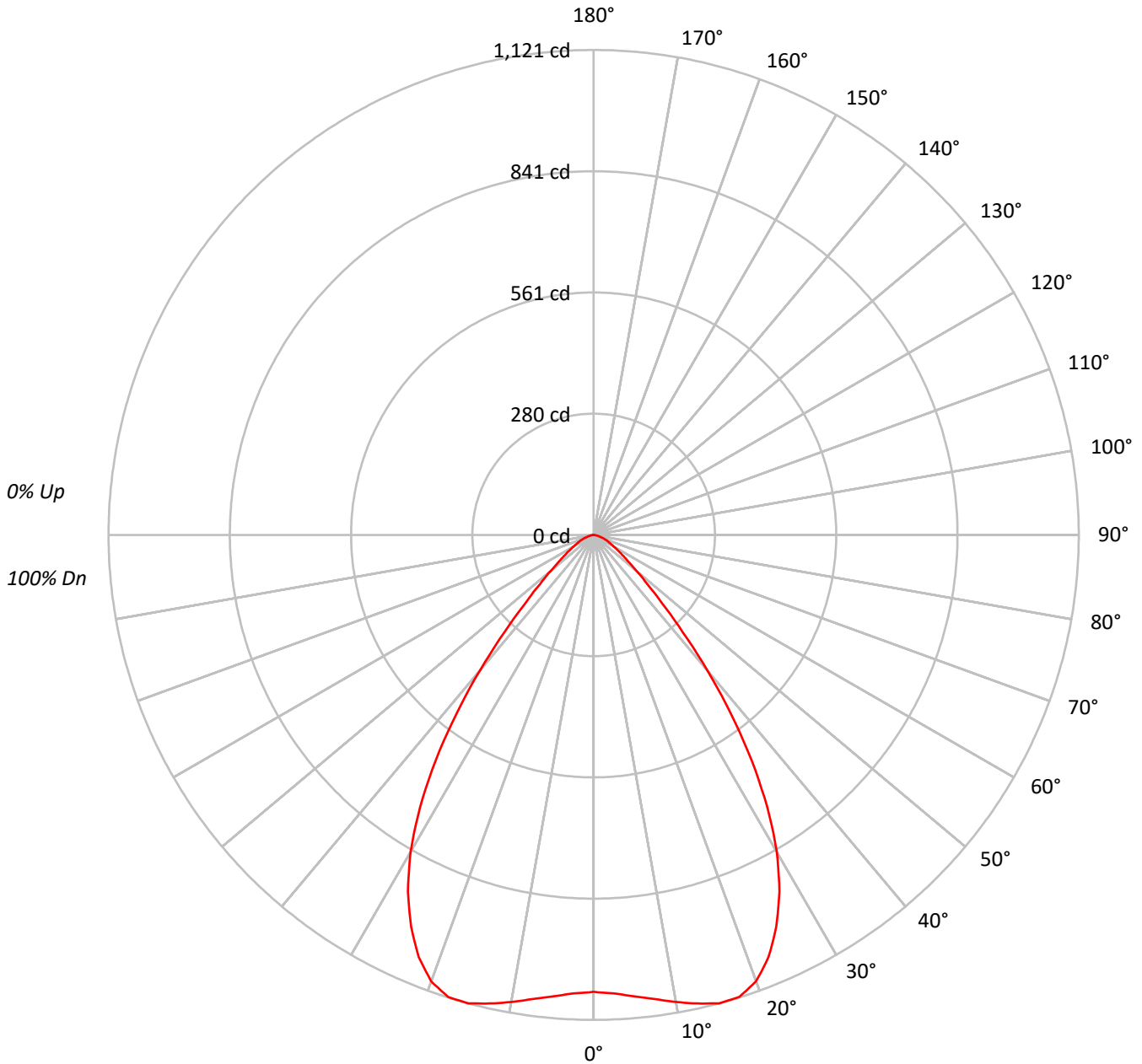
Lumens per Lamp: N/A  
Luminaire Lumens: 1578.7 lumens  
Efficiency: N/A  
Efficacy: 117.8 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91				
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83				
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75				
4	93	84	78	73	91	83	77	73	81	76	72	79	74	71	77	73	70	68				
5	88	78	71	66	86	77	71	66	75	69	65	73	68	65	72	67	64	62				
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57				
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	52				
8	73	62	55	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48				
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45				
10	65	54	48	44	64	54	48	43	53	47	43	52	47	43	51	47	43	42				

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

	0°
0°	57901
5°	58915
10°	61032
15°	63616
20°	64050
25°	60409
30°	53578
35°	42603
40°	29205
45°	17265
50°	11027
55°	7694
60°	5833
65°	4851
70°	3911
75°	3050
80°	1799
85°	881

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17265 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.0	6.5
10°-20°	315.3	20.0
20°-30°	454.4	28.8
30°-40°	392.1	24.8
40°-50°	183.7	11.6
50°-60°	75.3	4.8
60°-70°	37.6	2.4
70°-80°	15.3	1.0
80°-90°	1.9	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°	872.7	55.3
0°-40°	1264.8	80.1
0°-60°	1523.8	96.5
0°-90°	1578.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1578.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1056	
5°	1071	103
15°	1121	315
25°	999	454
35°	637	392
45°	223	184
55°	80	75
65°	37	38
75°	14	15
85°	1	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1056.2
2.5°	1060.5
5°	1070.6
7.5°	1082.1
10°	1096.4
12.5°	1109.4
15°	1120.9
17.5°	1119.4
20°	1097.9
22.5°	1056.2
25°	998.7
27.5°	929.7
30°	846.4
32.5°	747.2
35°	636.6
37.5°	520.2
40°	408.1
42.5°	304.6
45°	222.7
47.5°	168.1
50°	129.3
52.5°	100.6
55°	80.5
57.5°	66.1
60°	53.2
62.5°	44.5
65°	37.4
67.5°	31.6
70°	24.4
72.5°	18.7
75°	14.4
77.5°	10.1
80°	5.7
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)