

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: P643210

Luminaire Tested: ML5615LSVWFL759FS1E - 594WB - 900LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643210  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-78)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL759FS1E - 594WB - 900LM - 5000K  
Description: ML56 RR, 75D TIR OPTIC, 5" WHITE GIMBAL TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

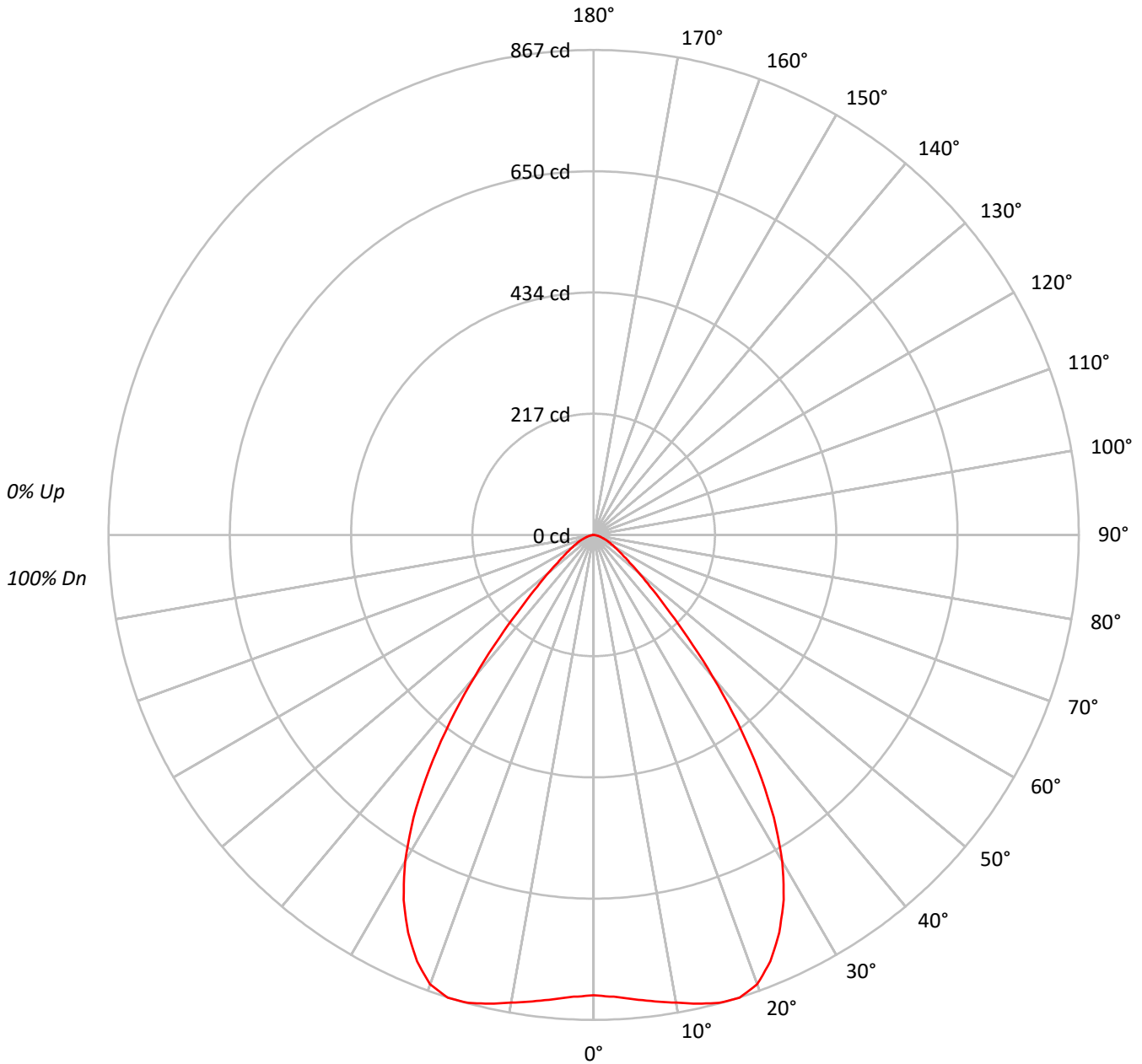
Lumens per Lamp: N/A  
Luminaire Lumens: 1251.0 lumens  
Efficiency: N/A  
Efficacy: 119.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 10.5  
Input Voltage (V): NR  
Input Current (Ain): 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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91			91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83			83
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75			75
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68			68
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62			62
6	82	72	65	60	81	71	64	60	69	64	59	68	63	59	67	62	58	57			57
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52			52
8	73	62	55	50	72	61	55	50	60	54	50	59	54	50	58	53	50	48			48
9	69	58	51	47	68	57	51	46	56	50	46	55	50	46	54	50	46	44			44
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41			41

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

	0°
0°	64968
5°	66033
10°	68071
15°	70791
20°	71809
25°	68323
30°	61446
35°	49408
40°	34089
45°	20307
50°	12846
55°	8918
60°	6820
65°	5529
70°	4455
75°	3477
80°	2046
85°	996

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20307 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.0	6.4
10°-20°	244.2	19.5
20°-30°	357.4	28.6
30°-40°	315.5	25.2
40°-50°	149.6	12.0
50°-60°	60.4	4.8
60°-70°	30.2	2.4
70°-80°	12.1	1.0
80°-90°	1.5	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°	681.7	54.5
0°-40°	997.1	79.7
0°-60°	1207.2	96.5
0°-90°	1251.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1251.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	823	
5°	833	80
15°	866	244
25°	784	357
35°	513	315
45°	182	150
55°	65	60
65°	30	30
75°	11	12
85°	1	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	823.0
2.5°	826.4
5°	833.3
7.5°	841.2
10°	849.2
12.5°	858.3
15°	866.2
17.5°	867.4
20°	854.8
22.5°	825.3
25°	784.4
27.5°	735.5
30°	674.1
32.5°	599.1
35°	512.7
37.5°	421.7
40°	330.8
42.5°	249.0
45°	181.9
47.5°	136.4
50°	104.6
52.5°	80.7
55°	64.8
57.5°	52.3
60°	43.2
62.5°	36.4
65°	29.6
67.5°	25.0
70°	19.3
72.5°	14.8
75°	11.4
77.5°	8.0
80°	4.5
82.5°	2.3
85°	1.1
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)