

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: P642572

Luminaire Tested: ML5615LSFL409FS1E - 692SC - 1500LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642572  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-37)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSFL409FS1E - 692SC - 1500LM - 3000K  
Description: ML56 RR, 40D TIR OPTIC, 6" SPECULAR CLEAR TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

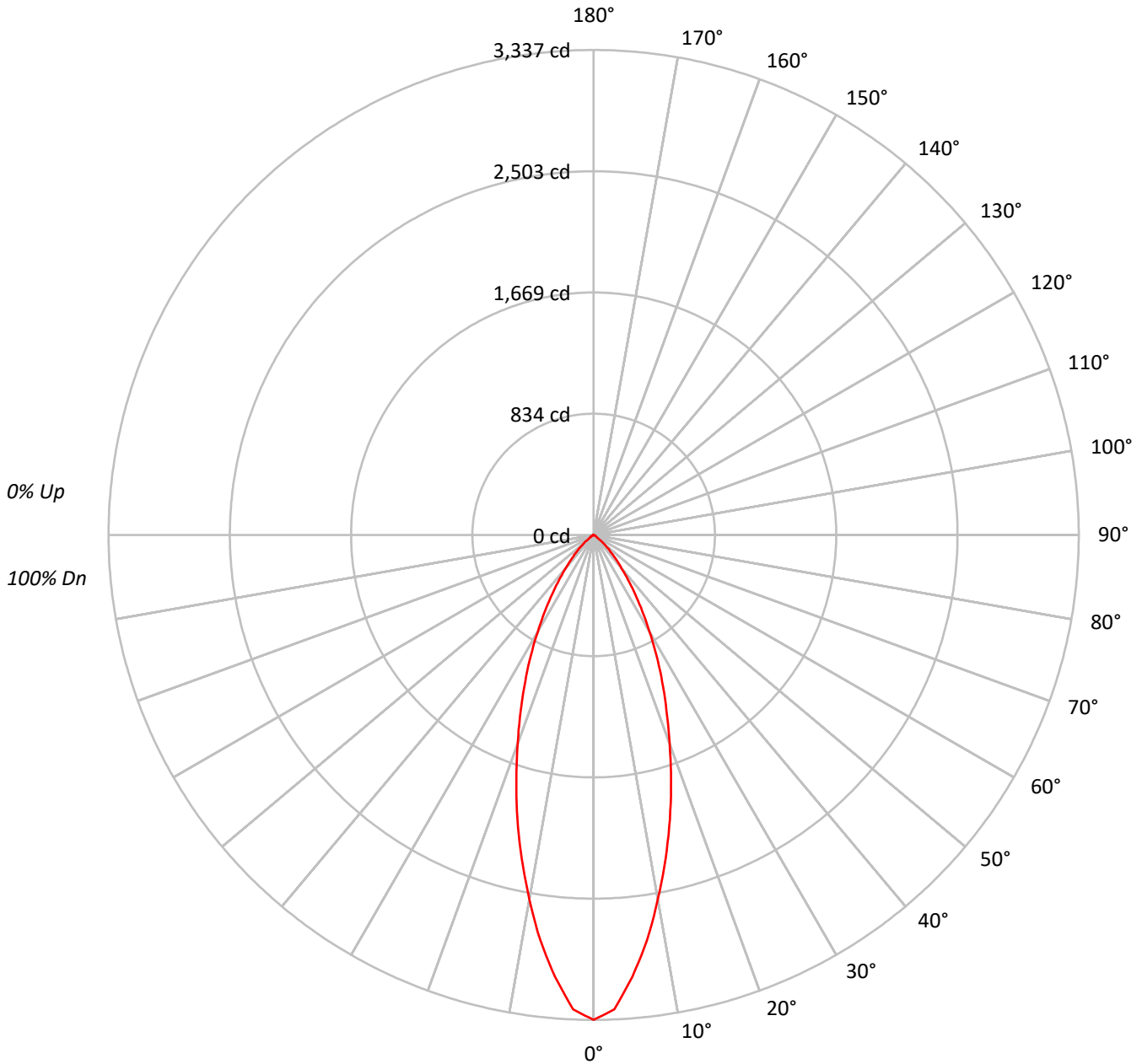
Lumens per Lamp: N/A  
Luminaire Lumens: 1831.3 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.66  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 17.1  
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									
RC	80									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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88																			
3	103	97	92	88	101	96	91	88	93	89	86	91	88	85	88	86	84	82																			
4	98	91	86	82	96	90	85	81	88	83	80	86	82	79	84	81	78	77																			
5	94	86	80	76	92	85	79	75	83	78	75	81	77	74	80	76	73	72																			
6	89	81	75	71	88	80	74	71	78	74	70	77	73	70	76	72	69	68																			
7	85	76	70	66	84	76	70	66	74	69	66	73	69	66	72	68	65	64																			
8	81	72	66	62	80	72	66	62	71	66	62	69	65	62	69	65	62	60																			
9	78	68	63	59	77	68	63	59	67	62	59	66	62	59	65	61	58	57																			
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	62	58	55	54																			

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

	0°
0°	182935
5°	167873
10°	141675
15°	114938
20°	89030
25°	67443
30°	48609
35°	33187
40°	21290
45°	13025
50°	6823
55°	2600
60°	1579
65°	623
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13025 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.6	15.1
10°-20°	560.0	30.6
20°-30°	511.2	27.9
30°-40°	314.3	17.2
40°-50°	134.9	7.4
50°-60°	29.9	1.6
60°-70°	5.3	0.3
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	1346.9	73.6
0°-40°	1661.2	90.7
0°-60°	1826.0	99.7
0°-90°	1831.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1831.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3337	
5°	3051	276
15°	2025	560
25°	1115	511
35°	496	314
45°	168	135
55°	27	30
65°	5	5
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3337.0
2.5°	3266.6
5°	3050.6
7.5°	2813.9
10°	2545.1
12.5°	2282.8
15°	2025.2
17.5°	1767.7
20°	1526.1
22.5°	1310.2
25°	1115.0
27.5°	934.2
30°	767.9
32.5°	622.3
35°	495.9
37.5°	387.1
40°	297.5
42.5°	228.8
45°	168.0
47.5°	123.2
50°	80.0
52.5°	40.0
55°	27.2
57.5°	20.8
60°	14.4
62.5°	9.6
65°	4.8
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
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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Scaled Data Report



(END OF REPORT)