

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P642932

Luminaire Tested: ML5615LSNFL259FS1E - 692W - 1500LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642932  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSNFL259FS1E - 692W - 1500LM - 3000K  
Description: ML56 RR, 25D TIR OPTIC, 6" WHITE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1711.3 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

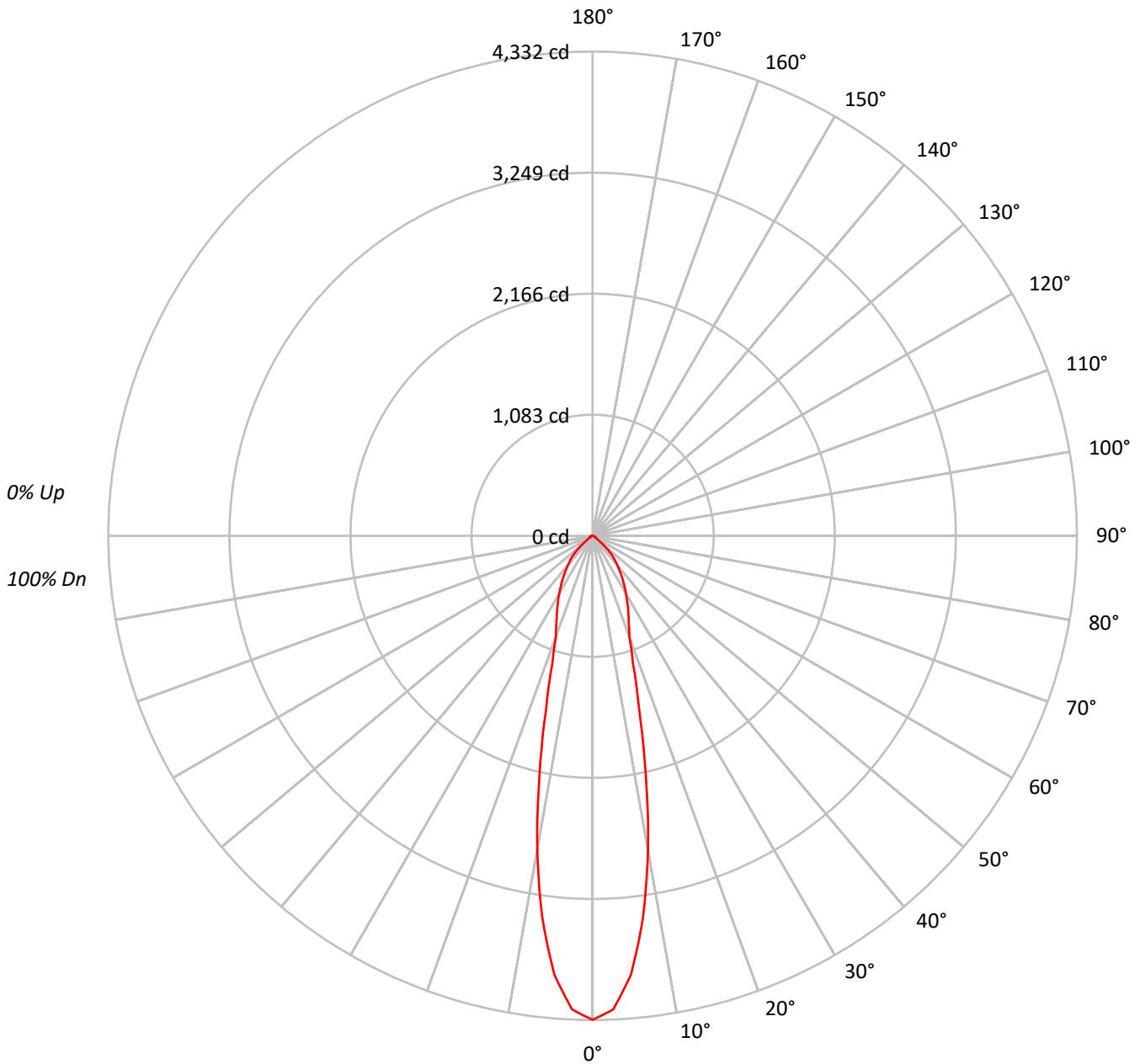
Input Watts (W): 17.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	113	111	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93																			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87																			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81																			
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75																			
5	93	84	78	74	91	83	78	74	82	77	73	80	76	73	78	75	72	70																			
6	88	79	74	69	87	79	73	69	77	72	69	76	71	68	74	71	68	66																			
7	84	75	69	65	83	74	69	65	73	68	65	72	68	64	71	67	64	62																			
8	80	71	65	61	79	71	65	61	70	65	61	69	64	61	68	64	61	59																			
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	61	57	56																			
10	74	65	59	55	73	64	59	55	63	58	55	63	58	55	62	58	55	54																			

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

	0°
0°	237459
5°	216723
10°	158971
15°	91113
20°	56157
25°	45650
30°	37753
35°	30818
40°	24718
45°	19211
50°	10635
55°	4129
60°	3333
65°	2906
70°	2565
75°	2711
80°	2526
85°	2013

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19211 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	340.7	19.9
10°-20°	461.7	27.0
20°-30°	348.1	20.3
30°-40°	288.6	16.9
40°-50°	184.0	10.8
50°-60°	49.0	2.9
60°-70°	22.7	1.3
70°-80°	12.9	0.8
80°-90°	3.7	0.2
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°	1150.4	67.2
0°-40°	1439.0	84.1
0°-60°	1672.0	97.7
0°-90°	1711.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1711.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4332	
5°	3938	341
15°	1605	462
25°	755	348
35°	460	289
45°	248	184
55°	43	49
65°	22	23
75°	13	13
85°	3	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4331.6
2.5°	4242.1
5°	3938.3
7.5°	3449.0
10°	2855.8
12.5°	2197.0
15°	1605.4
17.5°	1197.6
20°	962.6
22.5°	844.3
25°	754.7
27.5°	671.6
30°	596.4
32.5°	526.1
35°	460.5
37.5°	399.7
40°	345.4
42.5°	295.8
45°	247.8
47.5°	183.9
50°	124.7
52.5°	65.6
55°	43.2
57.5°	35.2
60°	30.4
62.5°	27.2
65°	22.4
67.5°	19.2
70°	16.0
72.5°	14.4
75°	12.8
77.5°	9.6
80°	8.0
82.5°	4.8
85°	3.2
87.5°	1.6
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)