

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: P642935

Luminaire Tested: ML5615LSNFL259FS1E - 692W - 1500LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642935  
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 - 5000K  
Description: ML56 RR, 25D TIR OPTIC, 6" WHITE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1892.1 lumens  
Efficiency: N/A  
Efficacy: 110.7 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

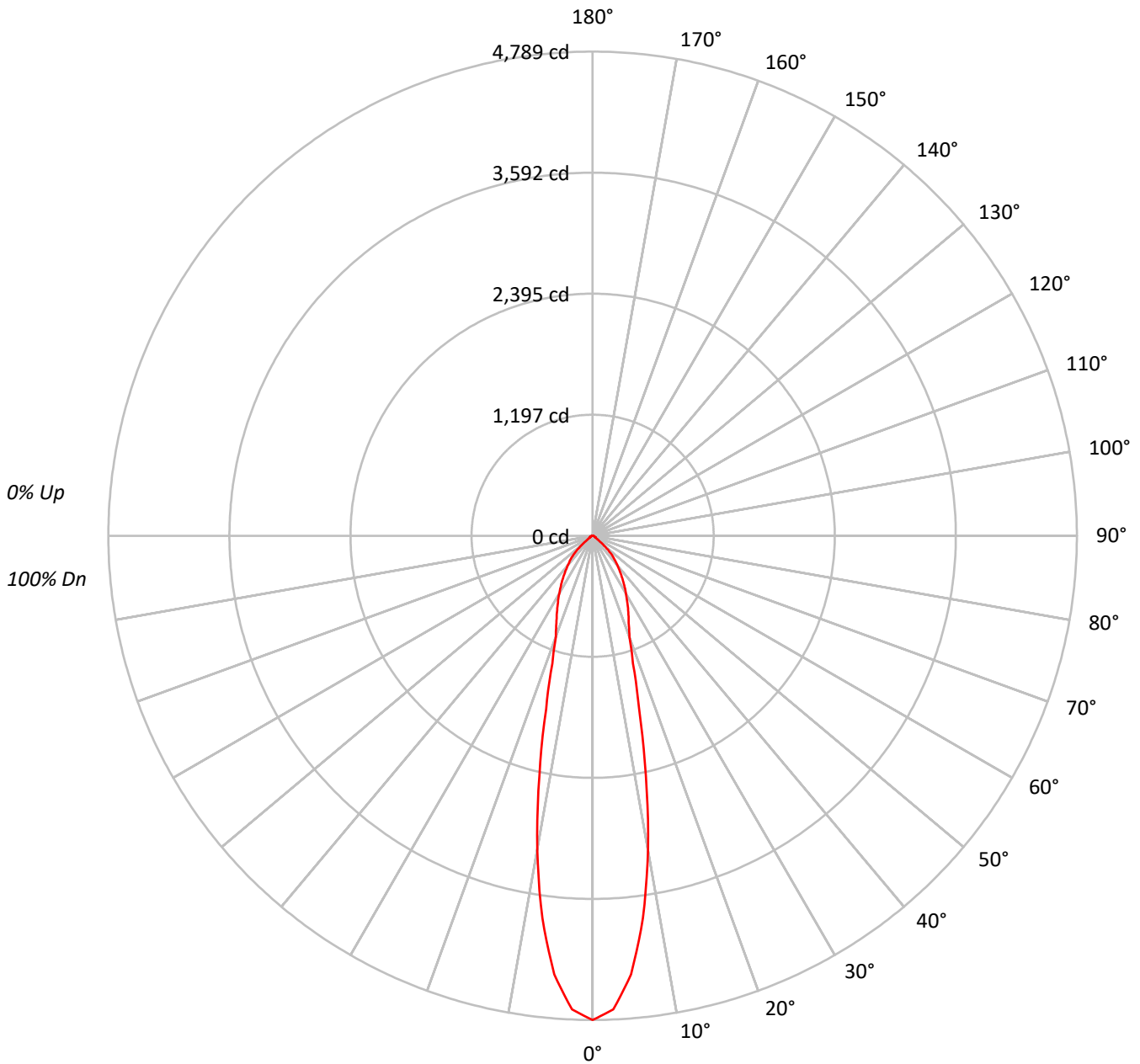
Input Watts (W): 17.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	262550
5°	239621
10°	175765
15°	100738
20°	62090
25°	50477
30°	41741
35°	34077
40°	27330
45°	21243
50°	11761
55°	4559
60°	3684
65°	3217
70°	2837
75°	2987
80°	2778
85°	2201

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 21243 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	376.7	19.9
10°-20°	510.5	27.0
20°-30°	384.9	20.3
30°-40°	319.1	16.9
40°-50°	203.5	10.8
50°-60°	54.1	2.9
60°-70°	25.1	1.3
70°-80°	14.2	0.8
80°-90°	4.1	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°	1272.0	67.2
0°-40°	1591.1	84.1
0°-60°	1848.7	97.7
0°-90°	1892.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1892.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4789	
5°	4354	377
15°	1775	510
25°	834	385
35°	509	319
45°	274	203
55°	48	54
65°	25	25
75°	14	14
85°	4	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4789.3
2.5°	4690.3
5°	4354.4
7.5°	3813.4
10°	3157.5
12.5°	2429.1
15°	1775.0
17.5°	1324.2
20°	1064.3
22.5°	933.5
25°	834.5
27.5°	742.5
30°	659.4
32.5°	581.6
35°	509.2
37.5°	442.0
40°	381.9
42.5°	327.1
45°	274.0
47.5°	203.3
50°	137.9
52.5°	72.5
55°	47.7
57.5°	38.9
60°	33.6
62.5°	30.1
65°	24.8
67.5°	21.2
70°	17.7
72.5°	15.9
75°	14.1
77.5°	10.6
80°	8.8
82.5°	5.3
85°	3.5
87.5°	1.8
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)