

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: P642755

Luminaire Tested: ML5615LSNFL259FS1E - 592W - 1500LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642755  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-4)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSNFL259FS1E - 592W - 1500LM - 5000K  
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

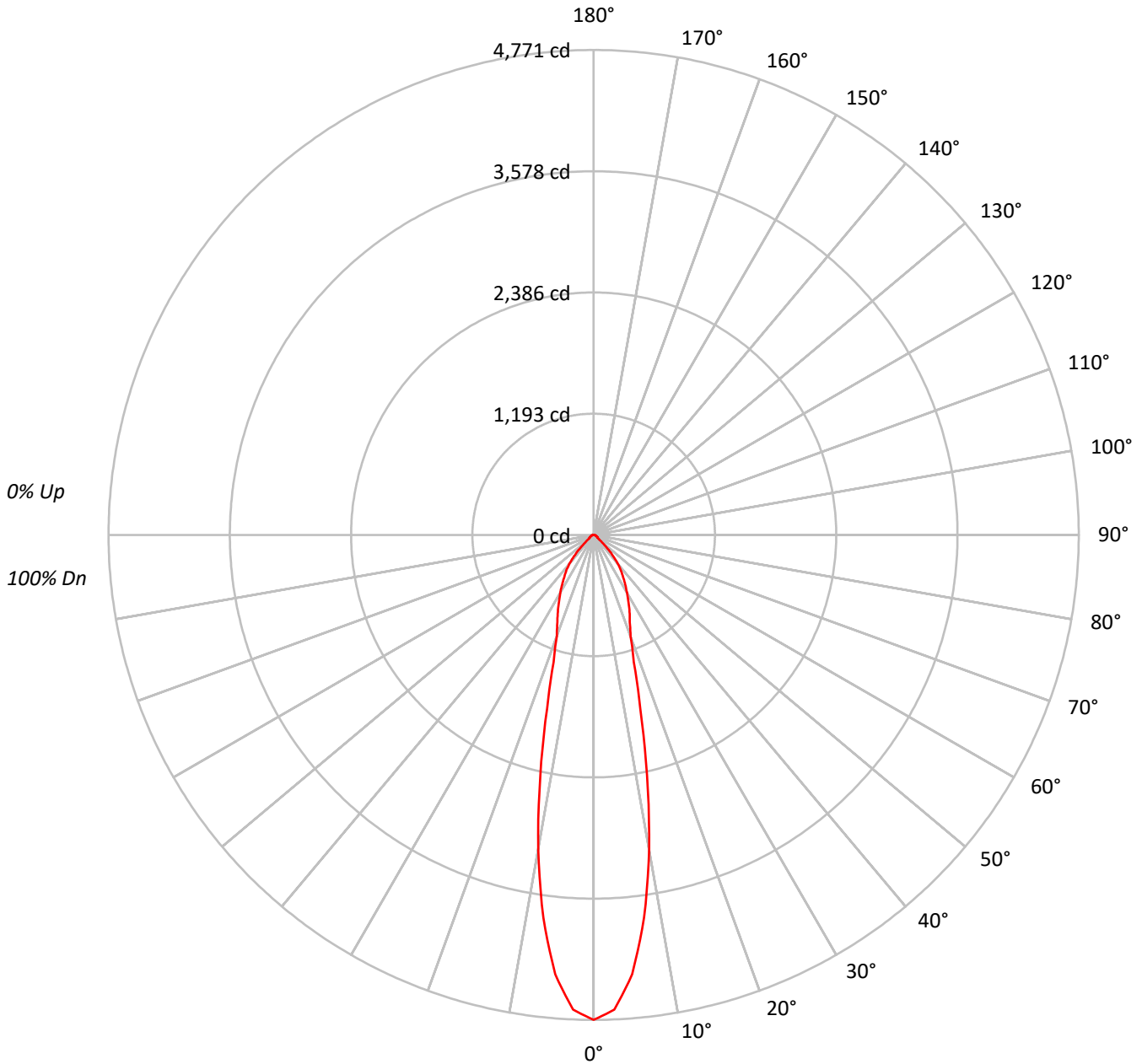
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1847.9 lumens  
Efficiency: N/A  
Efficacy: 108.1 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44  
Luminous Opening: Circular (Dia: 0.42' 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	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93																			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86																			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81																			
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	79	77	75																			
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71																			
6	88	80	74	70	87	79	73	69	77	73	69	76	72	69	75	71	68	67																			
7	85	76	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63																			
8	81	72	66	62	80	71	66	62	70	65	62	69	65	61	68	64	61	60																			
9	78	68	63	59	76	68	62	59	67	62	59	66	62	58	65	61	58	57																			
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	63	58	55	54																			

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

	0°
0°	376596
5°	343849
10°	251722
15°	144507
20°	88980
25°	72695
30°	59632
35°	48560
40°	38262
45°	23690
50°	8904
55°	6813
60°	6426
65°	5940
70°	5724
75°	5948
80°	5637
85°	4800

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 23690 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	375.2	20.3
10°-20°	507.5	27.5
20°-30°	383.5	20.8
30°-40°	315.9	17.1
40°-50°	161.6	8.7
50°-60°	46.2	2.5
60°-70°	31.7	1.7
70°-80°	20.3	1.1
80°-90°	6.0	0.3
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°	1266.2	68.5
0°-40°	1582.1	85.6
0°-60°	1789.9	96.9
0°-90°	1847.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1847.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4771	
5°	4339	375
15°	1768	508
25°	835	384
35°	504	316
45°	212	162
55°	50	46
65°	32	32
75°	20	20
85°	5	6
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4770.6
2.5°	4675.1
5°	4339.2
7.5°	3798.1
10°	3140.3
12.5°	2418.9
15°	1768.2
17.5°	1310.2
20°	1059.2
22.5°	930.1
25°	834.6
27.5°	739.1
30°	654.2
32.5°	576.4
35°	503.9
37.5°	440.3
40°	371.3
42.5°	286.4
45°	212.2
47.5°	130.8
50°	72.5
52.5°	56.6
55°	49.5
57.5°	44.2
60°	40.7
62.5°	35.4
65°	31.8
67.5°	28.3
70°	24.8
72.5°	23.0
75°	19.5
77.5°	15.9
80°	12.4
82.5°	8.8
85°	5.3
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)