

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: P642760

Luminaire Tested: ML5615LSNFL259FS1E - 592W - 900LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642760  
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 - 900LM - 5000K  
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

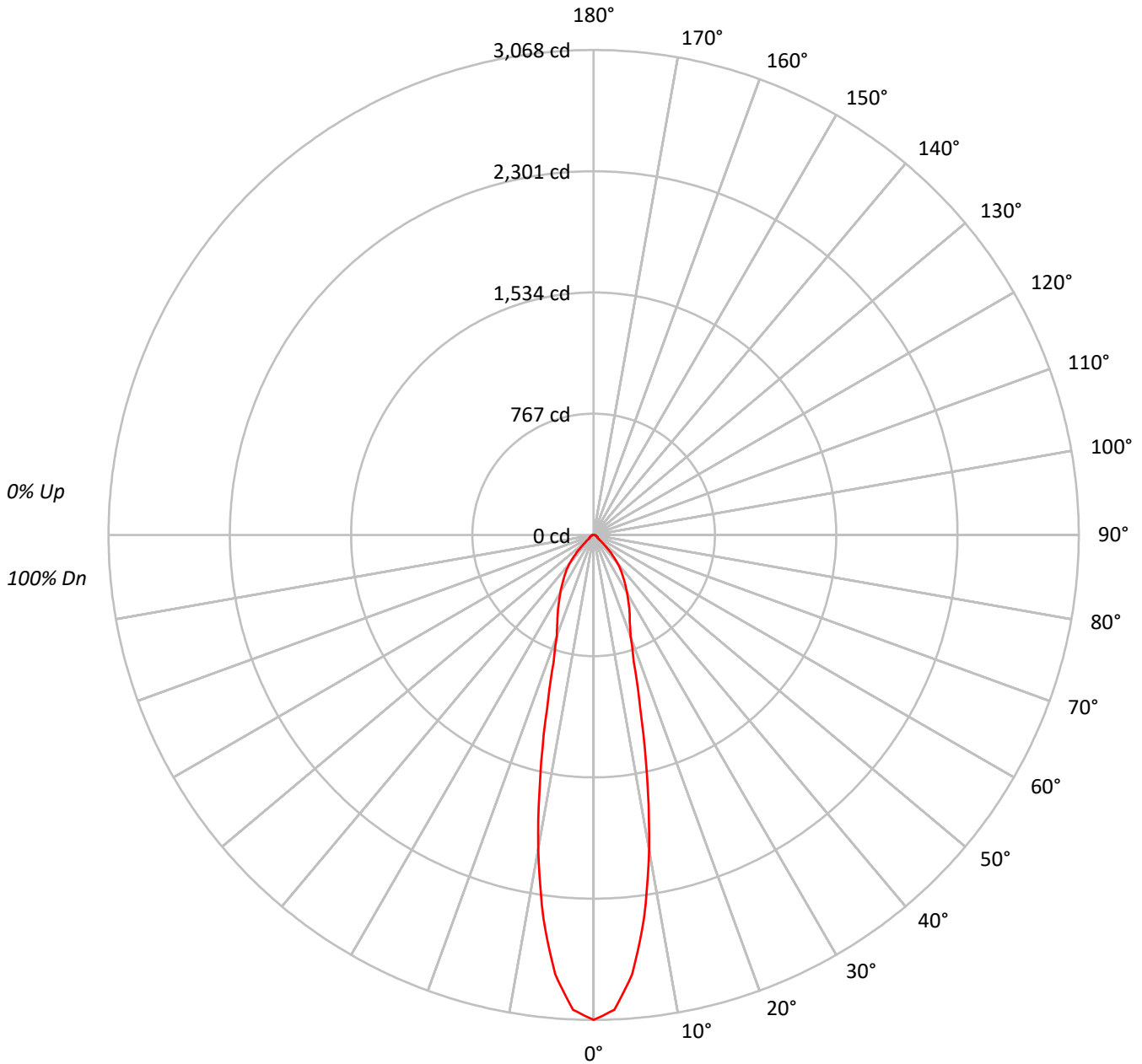
Lumens per Lamp: N/A  
Luminaire Lumens: 1188.4 lumens  
Efficiency: N/A  
Efficacy: 113.2 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 10.5  
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				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			
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°	242199
5°	221134
10°	161889
15°	92938
20°	57226
25°	46747
30°	38357
35°	31233
40°	24608
45°	15239
50°	5723
55°	4377
60°	4137
65°	3829
70°	3670
75°	3813
80°	3637
85°	3080

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15239 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.3	20.3
10°-20°	326.4	27.5
20°-30°	246.6	20.8
30°-40°	203.2	17.1
40°-50°	104.0	8.7
50°-60°	29.7	2.5
60°-70°	20.4	1.7
70°-80°	13.0	1.1
80°-90°	3.9	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°	814.3	68.5
0°-40°	1017.5	85.6
0°-60°	1151.1	96.9
0°-90°	1188.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1188.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3068	
5°	2791	241
15°	1137	326
25°	537	247
35°	324	203
45°	136	104
55°	32	30
65°	20	20
75°	12	13
85°	3	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3068.1
2.5°	3006.7
5°	2790.6
7.5°	2442.6
10°	2019.6
12.5°	1555.6
15°	1137.2
17.5°	842.6
20°	681.2
22.5°	598.1
25°	536.7
27.5°	475.3
30°	420.8
32.5°	370.7
35°	324.1
37.5°	283.2
40°	238.8
42.5°	184.2
45°	136.5
47.5°	84.2
50°	46.6
52.5°	36.4
55°	31.8
57.5°	28.4
60°	26.2
62.5°	22.7
65°	20.5
67.5°	18.2
70°	15.9
72.5°	14.8
75°	12.5
77.5°	10.2
80°	8.0
82.5°	5.7
85°	3.4
87.5°	1.1
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)