

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: P642756

Luminaire Tested: ML5615LSNFL259FS1E - 592W - 900LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642756  
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 - 2700K  
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1045.0 lumens  
Efficiency: N/A  
Efficacy: 99.5 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

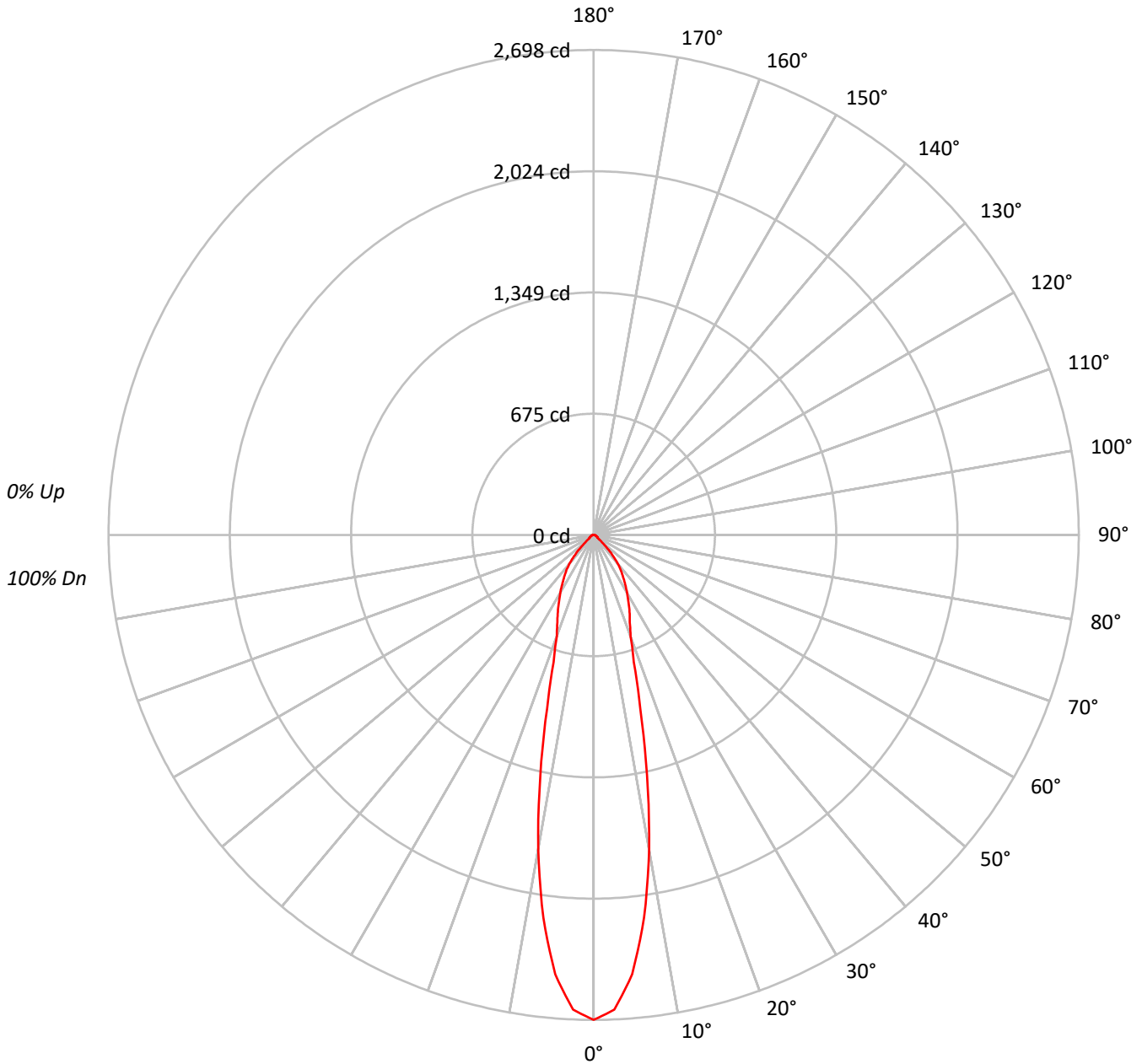
Input Watts (W): 10.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	100	100	100
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86	86	86	86
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81	81	81	81
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	79	77	75	75	75	75
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71	71	71	71
6	88	80	74	70	87	79	73	69	77	73	69	76	72	69	75	71	68	67	67	67	67
7	85	76	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63	63	63	63
8	81	72	66	62	80	71	66	62	70	65	62	69	65	61	68	64	61	60	60	60	60
9	78	68	63	59	76	68	62	59	67	62	59	66	62	58	65	61	58	57	57	57	57
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	63	58	55	54	54	54	54

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

	0°
0°	212967
5°	194445
10°	142354
15°	81717
20°	50320
25°	41112
30°	33727
35°	27465
40°	21641
45°	13397
50°	5035
55°	3854
60°	3631
65°	3362
70°	3231
75°	3355
80°	3182
85°	2717

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13397 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.1	20.3
10°-20°	287.0	27.5
20°-30°	216.9	20.8
30°-40°	178.7	17.1
40°-50°	91.4	8.7
50°-60°	26.1	2.5
60°-70°	17.9	1.7
70°-80°	11.5	1.1
80°-90°	3.4	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°	716.0	68.5
0°-40°	894.7	85.6
0°-60°	1012.2	96.9
0°-90°	1045.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1045.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2698	
5°	2454	212
15°	1000	287
25°	472	217
35°	285	179
45°	120	91
55°	28	26
65°	18	18
75°	11	11
85°	3	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2697.8
2.5°	2643.8
5°	2453.8
7.5°	2147.8
10°	1775.9
12.5°	1367.9
15°	999.9
17.5°	740.9
20°	599.0
22.5°	526.0
25°	472.0
27.5°	418.0
30°	370.0
32.5°	326.0
35°	285.0
37.5°	249.0
40°	210.0
42.5°	162.0
45°	120.0
47.5°	74.0
50°	41.0
52.5°	32.0
55°	28.0
57.5°	25.0
60°	23.0
62.5°	20.0
65°	18.0
67.5°	16.0
70°	14.0
72.5°	13.0
75°	11.0
77.5°	9.0
80°	7.0
82.5°	5.0
85°	3.0
87.5°	1.0
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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(END OF REPORT)