

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: P642880

Luminaire Tested: ML5615LSNFL259FS1E - 596WB - 900LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642880  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSNFL259FS1E - 596WB - 900LM - 5000K  
Description: ML56 RR, 25D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

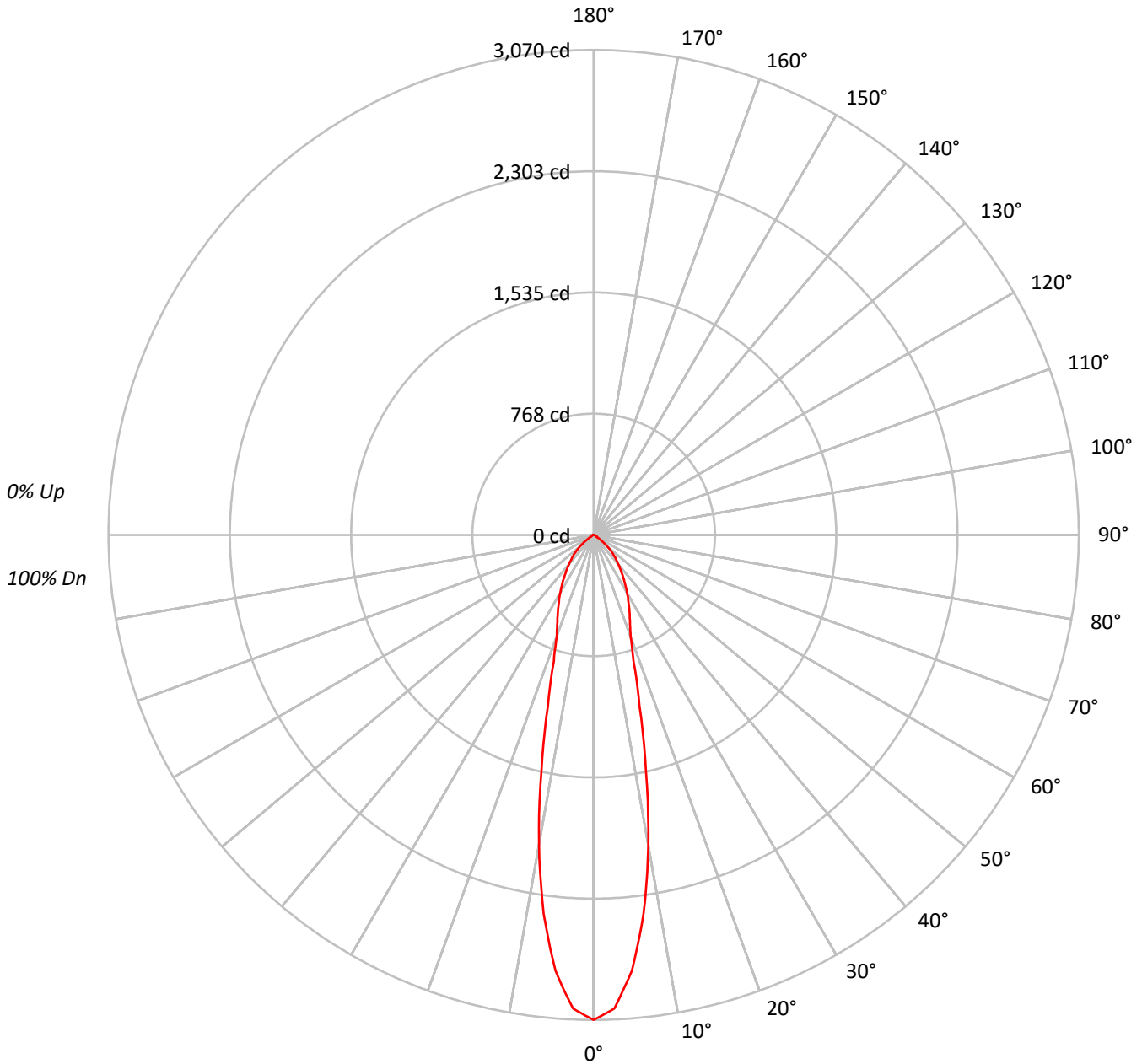
Lumens per Lamp: N/A  
Luminaire Lumens: 1224.9 lumens  
Efficiency: N/A  
Efficacy: 116.7 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.44  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 10.5  
Input Voltage (V): NR  
Input Current (Ain): 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
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93			93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86			86
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80			80
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75			75
5	92	84	78	73	90	83	77	73	81	76	72	79	75	72	78	74	71	70			70
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65			65
7	84	74	68	64	82	74	68	64	72	67	64	71	67	63	70	66	63	62			62
8	80	71	65	61	79	70	64	60	69	64	60	68	63	60	67	63	60	58			58
9	76	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55			55
10	73	64	58	54	72	63	58	54	63	58	54	62	57	54	61	57	54	53			53

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

	0°
0°	242372
5°	219502
10°	159844
15°	91574
20°	57242
25°	46765
30°	38576
35°	31243
40°	25082
45°	19939
50°	13411
55°	6111
60°	3410
65°	3194
70°	2631
75°	2440
80°	2591
85°	3080

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19939 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.4	19.5
10°-20°	322.6	26.3
20°-30°	247.1	20.2
30°-40°	203.6	16.6
40°-50°	136.3	11.1
50°-60°	47.3	3.9
60°-70°	16.5	1.3
70°-80°	8.9	0.7
80°-90°	3.3	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°	809.1	66.1
0°-40°	1012.7	82.7
0°-60°	1196.3	97.7
0°-90°	1224.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1224.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3070	
5°	2770	239
15°	1120	323
25°	537	247
35°	324	204
45°	179	136
55°	44	47
65°	17	16
75°	8	9
85°	3	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3070.3
2.5°	3000.9
5°	2770.0
7.5°	2419.6
10°	1994.1
12.5°	1528.9
15°	1120.5
17.5°	838.4
20°	681.4
22.5°	599.5
25°	536.9
27.5°	476.6
30°	423.2
32.5°	372.0
35°	324.2
37.5°	281.0
40°	243.4
42.5°	209.3
45°	178.6
47.5°	146.7
50°	109.2
52.5°	77.4
55°	44.4
57.5°	27.3
60°	21.6
62.5°	19.3
65°	17.1
67.5°	13.7
70°	11.4
72.5°	9.1
75°	8.0
77.5°	8.0
80°	5.7
82.5°	4.6
85°	3.4
87.5°	1.1
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)