

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: P641064

Luminaire Tested: ML5612LSNFL2597FS1E - 596WB - 900LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641064  
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: ML5612LSNFL2597FS1E - 596WB - 900LM - 4000K  
Description: ML56 RR, 25D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

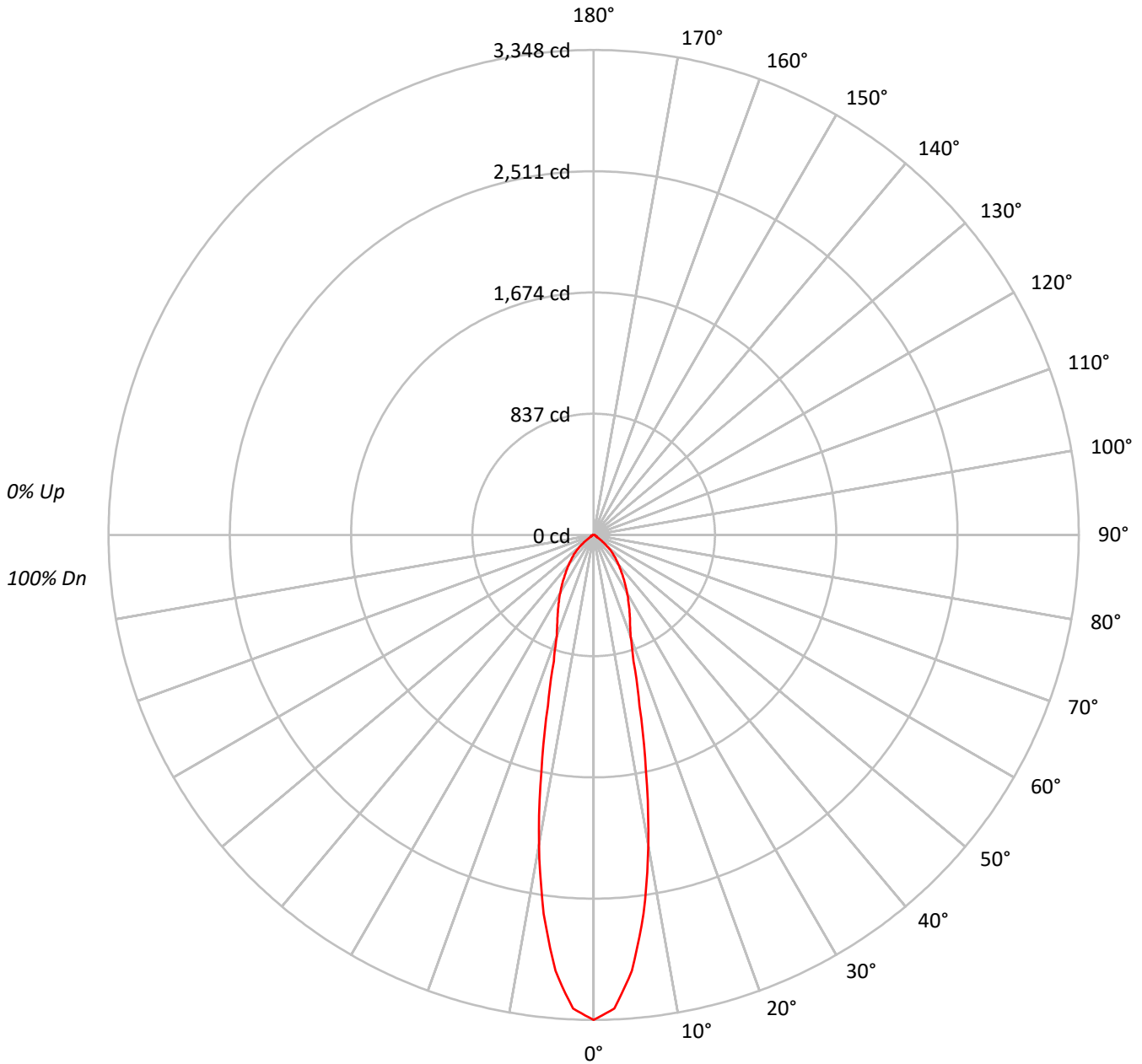
Lumens per Lamp: N/A  
Luminaire Lumens: 1335.8 lumens  
Efficiency: N/A  
Efficacy: 100.4 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.44  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 13.3  
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	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86	86	86	86
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80	80	80	80
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75	75	75	75
5	92	84	78	73	90	83	77	73	81	76	72	79	75	72	78	74	71	70	70	70	70
6	88	79	73	69	86	78	72	68	76	71	68	75	71	67	74	70	67	65	65	65	65
7	84	74	68	64	82	74	68	64	72	67	64	71	67	63	70	66	63	62	62	62	62
8	80	71	65	61	79	70	64	60	69	64	60	68	63	60	67	63	60	58	58	58	58
9	76	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55	55	55	55
10	73	64	58	54	72	63	58	54	63	58	54	62	57	54	61	57	54	53	53	53	53

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

	0°
0°	264334
5°	239391
10°	174329
15°	99869
20°	62426
25°	51007
30°	42067
35°	34076
40°	27360
45°	21747
50°	14627
55°	6661
60°	3726
65°	3474
70°	2862
75°	2654
80°	2819
85°	3351

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 21747 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.0	19.5
10°-20°	351.8	26.3
20°-30°	269.5	20.2
30°-40°	222.0	16.6
40°-50°	148.6	11.1
50°-60°	51.6	3.9
60°-70°	17.9	1.3
70°-80°	9.7	0.7
80°-90°	3.5	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°	882.4	66.1
0°-40°	1104.5	82.7
0°-60°	1304.7	97.7
0°-90°	1335.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1335.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3348	
5°	3021	261
15°	1222	352
25°	586	270
35°	354	222
45°	195	149
55°	48	52
65°	19	18
75°	9	10
85°	4	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3348.5
2.5°	3272.8
5°	3021.0
7.5°	2638.8
10°	2174.8
12.5°	1667.4
15°	1222.0
17.5°	914.4
20°	743.1
22.5°	653.8
25°	585.6
27.5°	519.8
30°	461.5
32.5°	405.7
35°	353.6
37.5°	306.4
40°	265.5
42.5°	228.3
45°	194.8
47.5°	160.0
50°	119.1
52.5°	84.4
55°	48.4
57.5°	29.8
60°	23.6
62.5°	21.1
65°	18.6
67.5°	14.9
70°	12.4
72.5°	9.9
75°	8.7
77.5°	8.7
80°	6.2
82.5°	5.0
85°	3.7
87.5°	1.2
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)