

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: P641002

Luminaire Tested: ML5612LSNFL2597FS1E - 593WB - 900LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641002  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSNFL2597FS1E - 593WB - 900LM - 3000K  
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

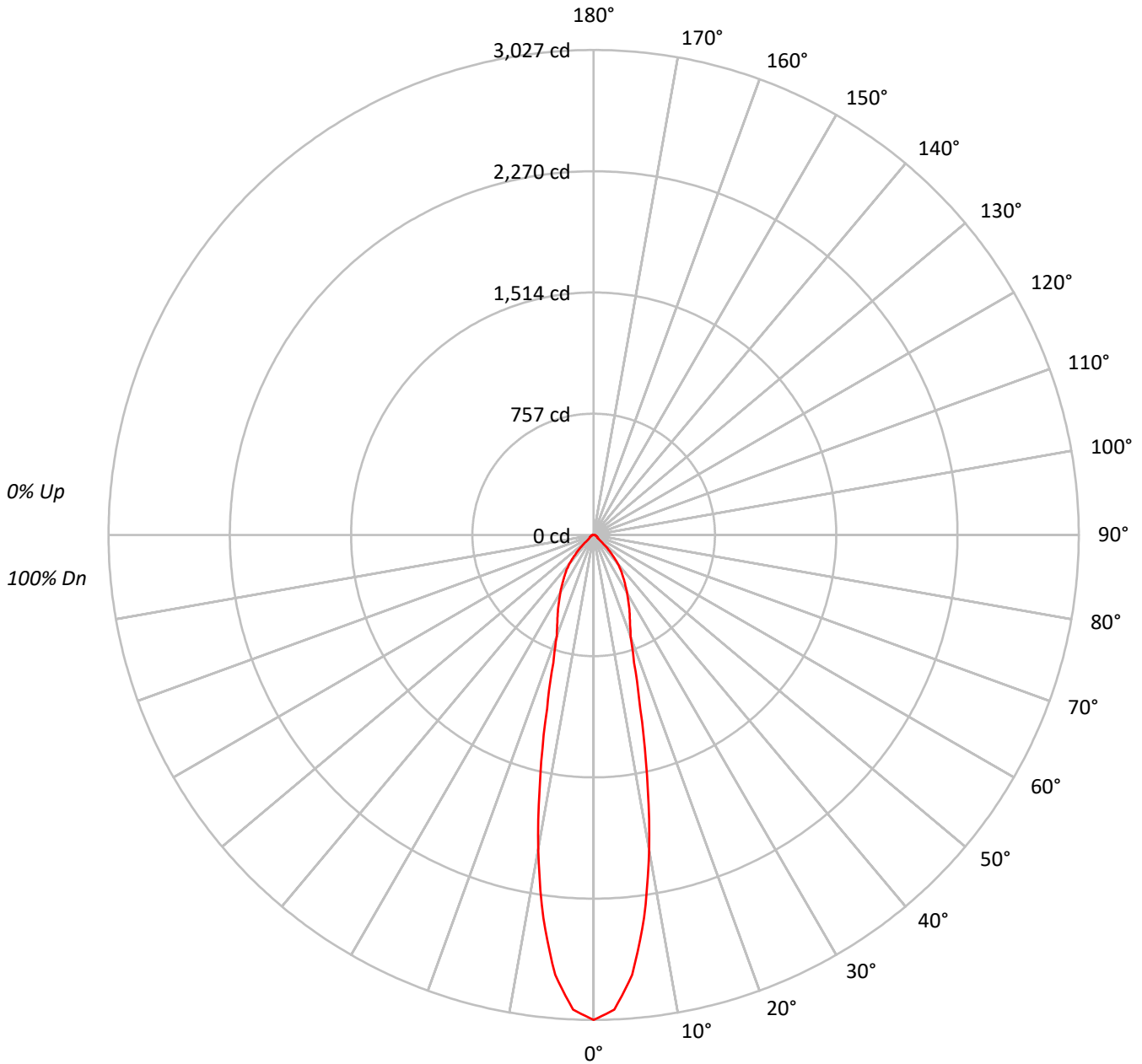
Lumens per Lamp: N/A  
Luminaire Lumens: 1171.6 lumens  
Efficiency: N/A  
Efficacy: 88.1 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 13.3  
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									
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			100																
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93			93																
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86			86																
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81			81																
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	80	77	75			75																
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71			71																
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67			67																
7	85	76	70	66	83	75	69	66	74	69	65	72	68	65	71	67	64	63			63																
8	81	72	66	62	80	71	66	62	70	65	62	69	65	61	68	64	61	60			60																
9	78	68	63	59	77	68	62	59	67	62	59	66	62	58	65	61	58	57			57																
10	74	65	60	56	74	65	60	56	64	59	56	63	59	56	63	58	56	54			54																

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

	0°
0°	238986
5°	218368
10°	159949
15°	91770
20°	56604
25°	46068
30°	37874
35°	30838
40°	24299
45°	14915
50°	5514
55°	4170
60°	3900
65°	3568
70°	3624
75°	3782
80°	3591
85°	4076

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14915 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.2	20.3
10°-20°	322.6	27.5
20°-30°	243.5	20.8
30°-40°	200.5	17.1
40°-50°	102.1	8.7
50°-60°	28.6	2.4
60°-70°	19.4	1.7
70°-80°	12.6	1.1
80°-90°	4.1	0.4
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°	804.3	68.7
0°-40°	1004.8	85.8
0°-60°	1135.4	96.9
0°-90°	1171.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1171.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3027	
5°	2756	238
15°	1123	323
25°	529	243
35°	320	200
45°	134	102
55°	30	29
65°	19	19
75°	12	13
85°	4	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3027.4
2.5°	2965.7
5°	2755.7
7.5°	2410.9
10°	1995.4
12.5°	1533.9
15°	1122.9
17.5°	836.6
20°	673.8
22.5°	590.7
25°	528.9
27.5°	469.4
30°	415.5
32.5°	365.0
35°	320.0
37.5°	279.6
40°	235.8
42.5°	181.9
45°	133.6
47.5°	82.0
50°	44.9
52.5°	34.8
55°	30.3
57.5°	28.1
60°	24.7
62.5°	22.5
65°	19.1
67.5°	16.8
70°	15.7
72.5°	13.5
75°	12.4
77.5°	10.1
80°	7.9
82.5°	5.6
85°	4.5
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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Scaled Data Report



(END OF REPORT)