

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: P641020

Luminaire Tested: ML5612LSNFL2597FS1E - 594SNB - 900LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641020  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSNFL2597FS1E - 594SNB - 900LM - 5000K  
Description: ML56 RR, 25D TIR OPTIC, 5" SATIN NICKLE GIMBAL TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

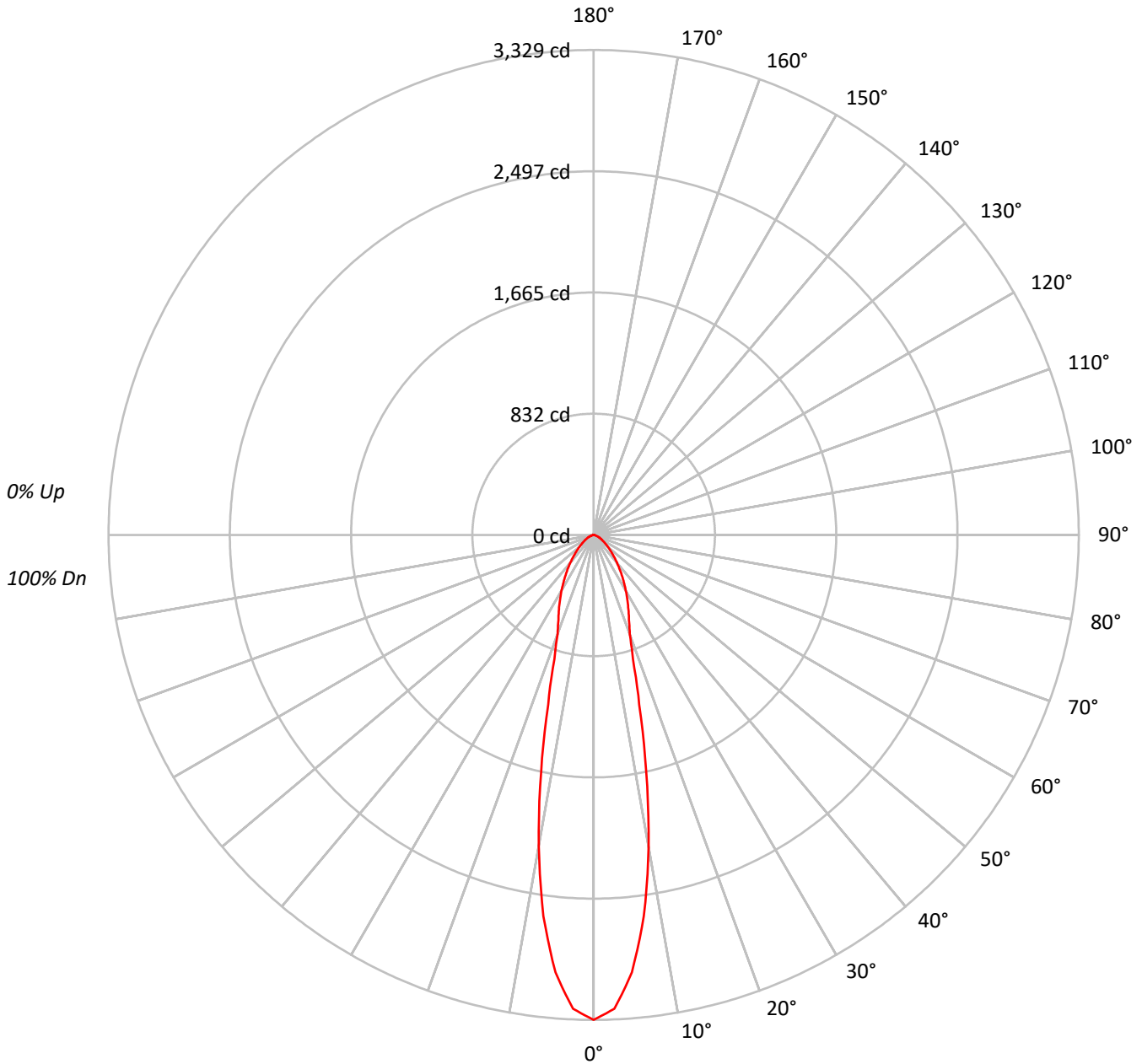
Lumens per Lamp: N/A  
Luminaire Lumens: 1356.1 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.43  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

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									
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	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92			92																
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85			85																
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78			78																
4	96	88	82	78	94	87	81	77	84	80	76	82	78	75	81	77	74	73			73																
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68			68																
6	86	77	71	67	85	76	71	66	75	70	66	74	69	66	72	68	65	64			64																
7	82	73	67	62	81	72	66	62	71	66	62	70	65	62	69	64	61	60			60																
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57			57																
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54			54																
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	55	52	51			51																

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

	0°
0°	262794
5°	238829
10°	174057
15°	98667
20°	60662
25°	49064
30°	40153
35°	32284
40°	25577
45°	20084
50°	15695
55°	12290
60°	9789
65°	7883
70°	5724
75°	3020
80°	1682
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20084 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.6	19.2
10°-20°	347.9	25.7
20°-30°	259.8	19.2
30°-40°	210.1	15.5
40°-50°	140.3	10.3
50°-60°	81.4	6.0
60°-70°	42.6	3.1
70°-80°	12.2	0.9
80°-90°	1.2	0.1
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°	868.3	64.0
0°-40°	1078.5	79.5
0°-60°	1300.2	95.9
0°-90°	1356.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1356.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3329	
5°	3014	261
15°	1207	348
25°	563	260
35°	335	210
45°	180	140
55°	89	81
65°	42	43
75°	10	12
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3329.0
2.5°	3255.8
5°	3013.9
7.5°	2639.2
10°	2171.4
12.5°	1663.9
15°	1207.3
17.5°	894.6
20°	722.1
22.5°	632.8
25°	563.3
27.5°	500.0
30°	440.5
32.5°	384.6
35°	335.0
37.5°	289.1
40°	248.2
42.5°	212.2
45°	179.9
47.5°	151.4
50°	127.8
52.5°	106.7
55°	89.3
57.5°	74.4
60°	62.0
62.5°	52.1
65°	42.2
67.5°	34.7
70°	24.8
72.5°	16.1
75°	9.9
77.5°	6.2
80°	3.7
82.5°	2.5
85°	0.0
87.5°	0.0
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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Scaled Data Report



(END OF REPORT)