

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: P641309

Luminaire Tested: ML5612LSVWFL7597FS1E - 593SNB - 1200LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641309  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-76)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL7597FS1E - 593SNB - 1200LM - 4000K  
Description: ML56 RR, 75D TIR OPTIC, 5" SATIN NICKLE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

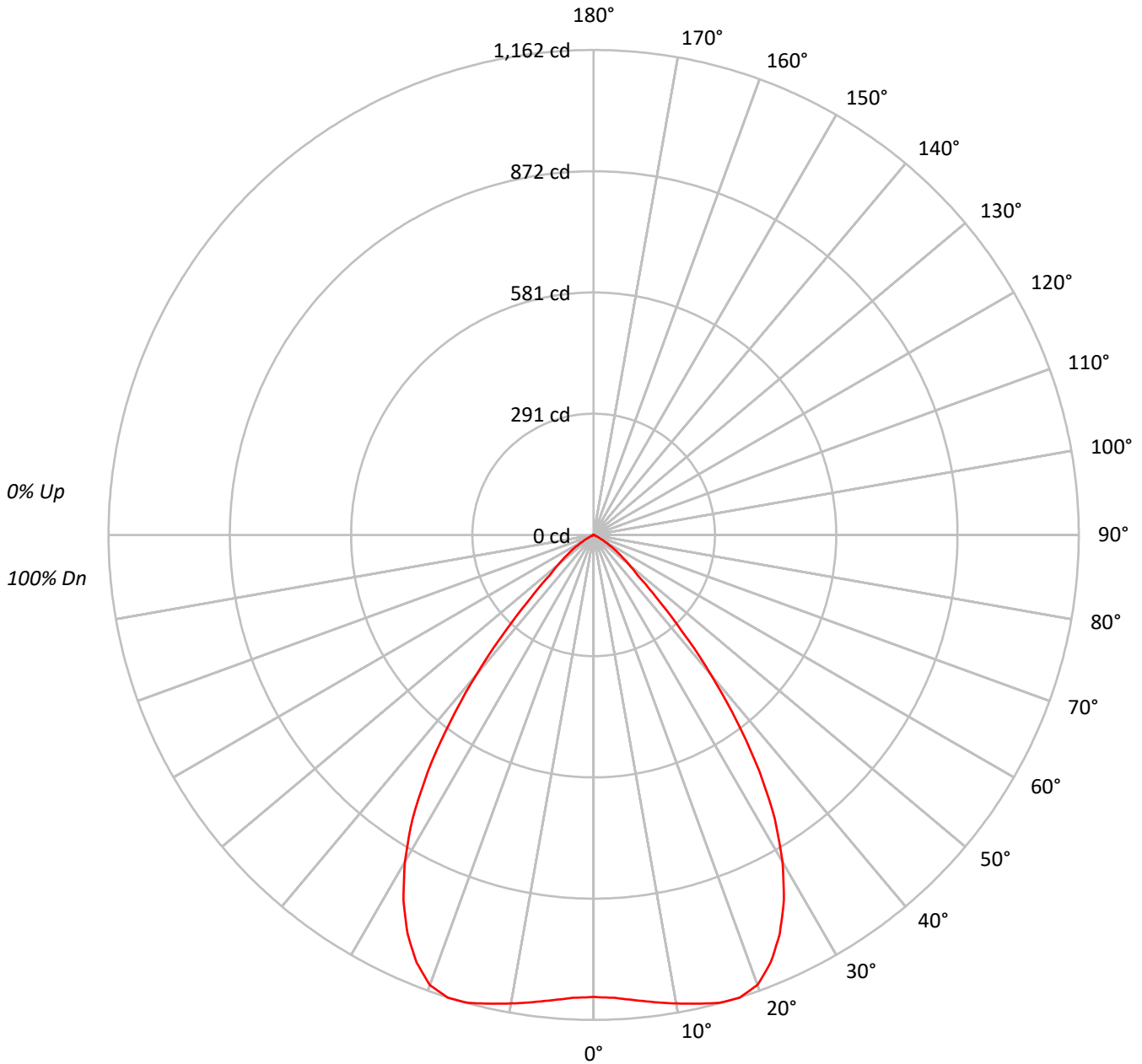
Lumens per Lamp: N/A  
Luminaire Lumens: 1584.0 lumens  
Efficiency: N/A  
Efficacy: 96.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 16.5  
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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	110	107	105	110	108	105	103	104	102	100		100	98	97		96	95	94	92
2	107	101	97	93	104	99	95	92	96	93	90		93	90	88		90	88	86	84
3	100	93	88	83	98	92	87	83	89	85	81		87	83	80		84	81	79	77
4	95	86	80	75	93	85	79	75	83	78	74		81	76	73		79	75	72	71
5	89	80	73	68	87	79	73	68	77	72	67		75	70	67		74	69	66	65
6	84	74	67	63	82	73	67	62	72	66	62		70	65	61		69	64	61	59
7	79	69	62	57	78	68	62	57	67	61	57		65	60	57		64	60	56	55
8	75	64	57	53	73	63	57	53	62	57	52		61	56	52		60	55	52	50
9	70	60	53	49	69	59	53	49	58	53	49		57	52	48		56	52	48	47
10	67	56	50	45	66	56	49	45	55	49	45		54	49	45		53	48	45	43

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

	0°
0°	87380
5°	88664
10°	91373
15°	94875
20°	96390
25°	91831
30°	82412
35°	66716
40°	45033
45°	23645
50°	13644
55°	8478
60°	3789
65°	1121
70°	692
75°	458
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 23645 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.5	6.8
10°-20°	327.4	20.7
20°-30°	479.8	30.3
30°-40°	423.8	26.8
40°-50°	178.9	11.3
50°-60°	56.5	3.6
60°-70°	8.4	0.5
70°-80°	1.6	0.1
80°-90°	0.0	0.0
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°	914.7	57.7
0°-40°	1338.5	84.5
0°-60°	1574.0	99.4
0°-90°	1584.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1584.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1107	
5°	1119	107
15°	1161	327
25°	1054	480
35°	692	424
45°	212	179
55°	62	57
65°	6	8
75°	2	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1106.9
2.5°	1109.9
5°	1118.9
7.5°	1129.4
10°	1139.9
12.5°	1150.4
15°	1160.9
17.5°	1162.4
20°	1147.4
22.5°	1108.4
25°	1054.3
27.5°	986.7
30°	904.1
32.5°	808.0
35°	692.3
37.5°	564.7
40°	437.0
42.5°	313.9
45°	211.8
47.5°	142.7
50°	111.1
52.5°	84.1
55°	61.6
57.5°	42.1
60°	24.0
62.5°	12.0
65°	6.0
67.5°	3.0
70°	3.0
72.5°	1.5
75°	1.5
77.5°	1.5
80°	0.0
82.5°	0.0
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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(END OF REPORT)