

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: P642031

Luminaire Tested: ML5612LSWFL5597FS1E - 593WB - 600LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642031  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-51)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSWFL5597FS1E - 593WB - 600LM - 2700K  
Description: ML56 RR, 55D TIR OPTIC, 5" WHITE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

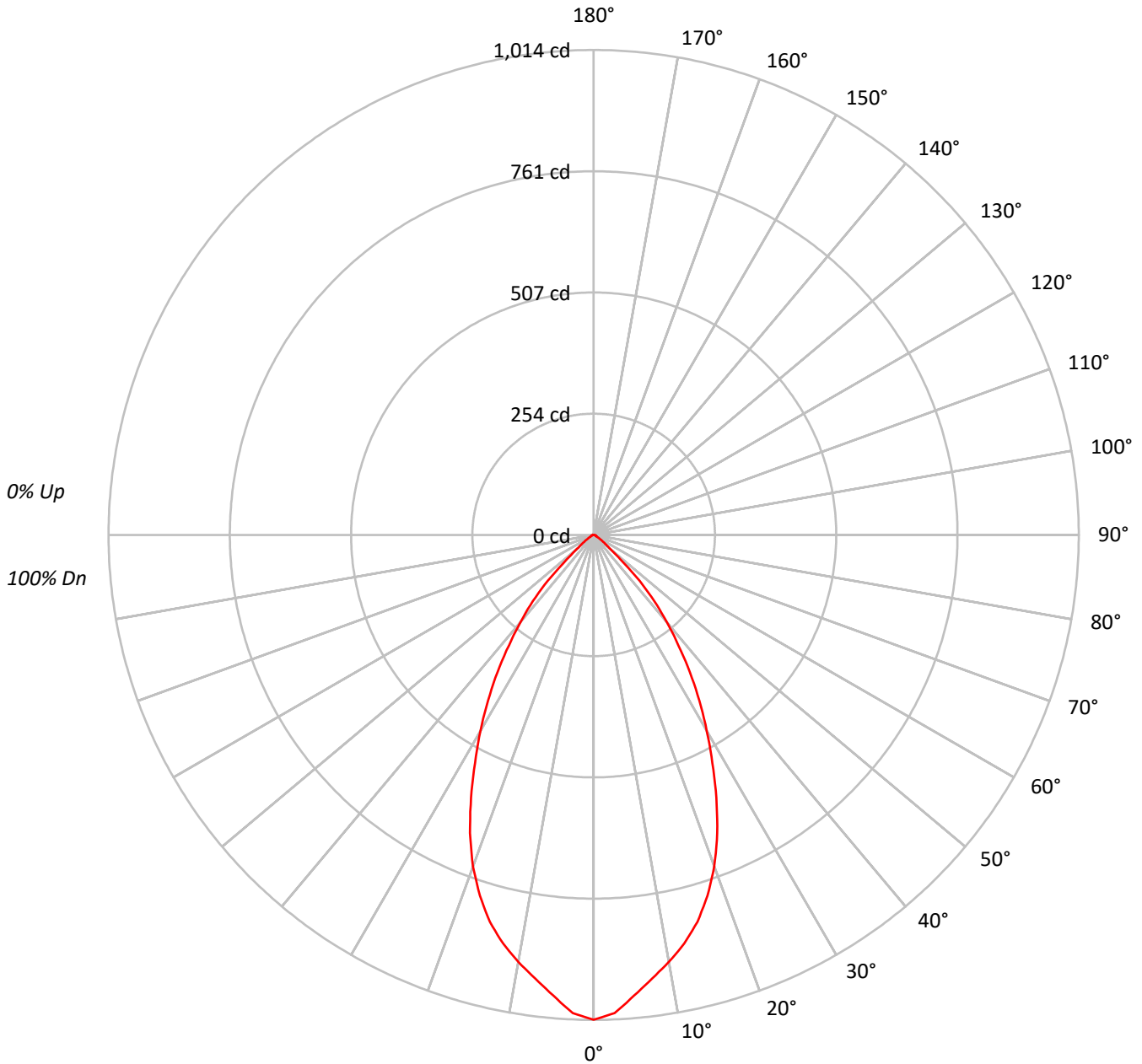
Lumens per Lamp: N/A  
Luminaire Lumens: 953.4 lumens  
Efficiency: N/A  
Efficacy: 92.6 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 10.3  
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	106	103	104	102	100	100	99	97	97	96	94	93			93																
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85			85																
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79			79																
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72			72																
5	90	81	75	71	89	81	75	70	79	74	70	77	73	69	75	72	68	67			67																
6	85	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62			62																
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58			58																
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54			54																
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50			50																
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47			47																

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

	0°
0°	80022
5°	76620
10°	72664
15°	68453
20°	61938
25°	52810
30°	43097
35°	33768
40°	24454
45°	15194
50°	5428
55°	2932
60°	1484
65°	1121
70°	1177
75°	1037
80°	1182
85°	1540

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15194 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.5	9.5
10°-20°	233.2	24.5
20°-30°	276.8	29.0
30°-40°	218.1	22.9
40°-50°	102.5	10.7
50°-60°	20.6	2.2
60°-70°	6.2	0.7
70°-80°	3.9	0.4
80°-90°	1.5	0.2
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°	600.5	63.0
0°-40°	818.6	85.9
0°-60°	941.7	98.8
0°-90°	953.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	953.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1014	
5°	967	90
15°	838	233
25°	606	277
35°	350	218
45°	136	102
55°	21	21
65°	6	6
75°	3	4
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1013.7
2.5°	1000.9
5°	966.9
7.5°	935.4
10°	906.5
12.5°	875.1
15°	837.6
17.5°	790.9
20°	737.3
22.5°	675.2
25°	606.3
27.5°	537.4
30°	472.8
32.5°	410.7
35°	350.4
37.5°	290.8
40°	237.3
42.5°	187.9
45°	136.1
47.5°	75.7
50°	44.2
52.5°	30.6
55°	21.3
57.5°	14.5
60°	9.4
62.5°	6.8
65°	6.0
67.5°	5.1
70°	5.1
72.5°	4.3
75°	3.4
77.5°	3.4
80°	2.6
82.5°	1.7
85°	1.7
87.5°	0.9
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)