

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P642108

Luminaire Tested: ML5612LSWFL5597FS1E - 691WB - 600LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642108  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-59)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSWFL5597FS1E - 691WB - 600LM - 3500K  
Description: ML56 RR, 55D TIR OPTIC, 6" DEADFRONT TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

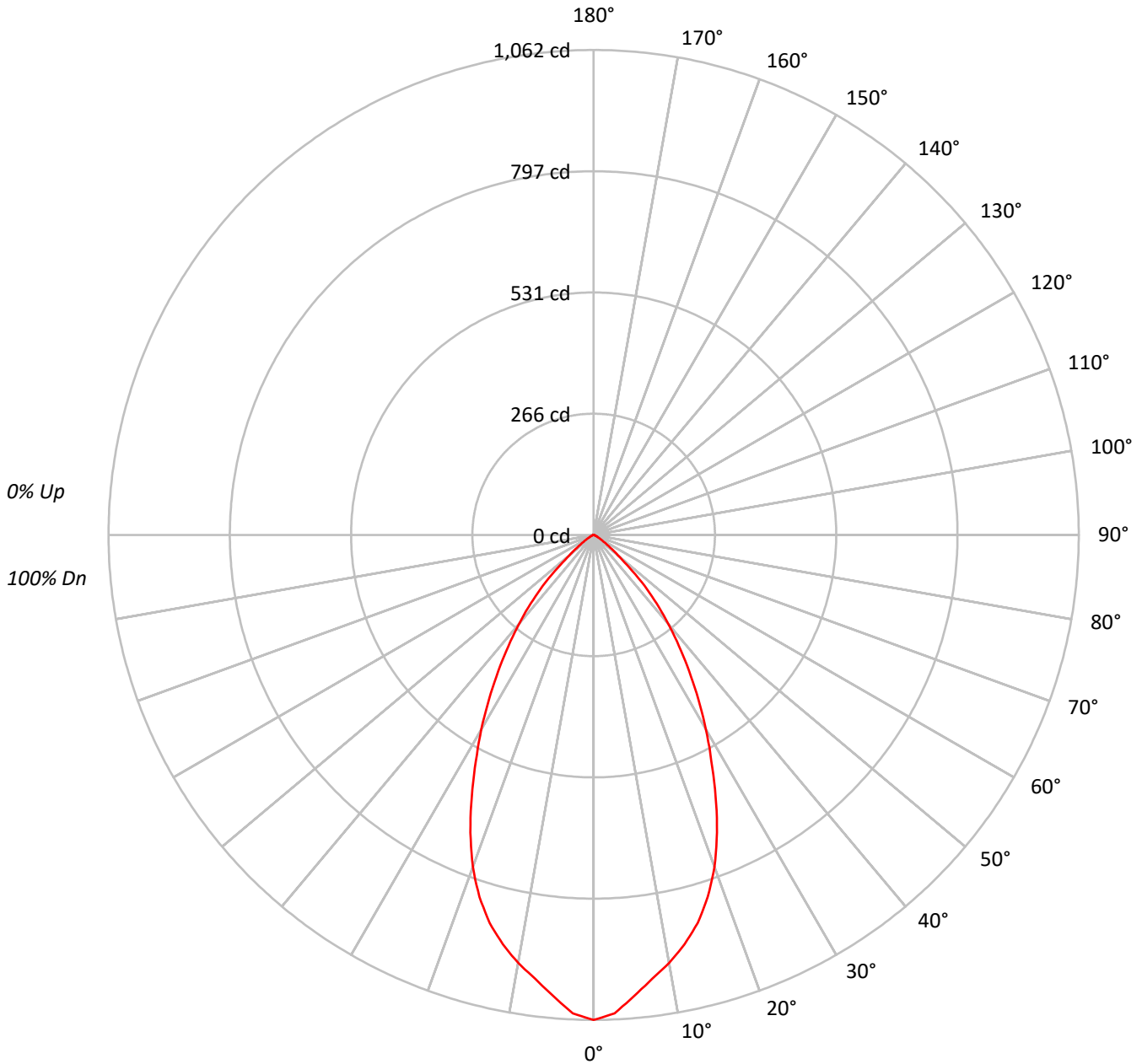
Lumens per Lamp: N/A  
Luminaire Lumens: 1016.2 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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																			
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93																			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85																			
3	101	94	89	84	99	93	88	84	90	86	82	88	84	81	85	82	80	78																			
4	95	87	81	77	93	86	81	76	84	79	75	82	78	74	80	76	74	72																			
5	90	81	75	70	88	80	74	70	78	73	69	77	72	69	75	71	68	66																			
6	85	76	69	65	84	75	69	64	73	68	64	72	67	63	70	66	63	61																			
7	81	71	64	60	79	70	64	59	69	63	59	67	62	59	66	62	58	57																			
8	76	66	60	55	75	66	59	55	64	59	55	63	58	55	62	58	54	53																			
9	72	62	56	52	71	62	56	51	61	55	51	60	55	51	59	54	51	49																			
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	56	51	48	46																			

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

	0°
0°	58225
5°	55778
10°	52972
15°	49927
20°	45136
25°	38210
30°	31112
35°	24353
40°	18134
45°	12187
50°	5902
55°	2925
60°	1480
65°	934
70°	433
75°	381
80°	284
85°	566

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12187 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.8	9.3
10°-20°	244.9	24.1
20°-30°	288.6	28.4
30°-40°	227.7	22.4
40°-50°	119.5	11.8
50°-60°	30.6	3.0
60°-70°	7.3	0.7
70°-80°	1.9	0.2
80°-90°	0.9	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°	628.3	61.8
0°-40°	856.1	84.2
0°-60°	1006.2	99.0
0°-90°	1016.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1016.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1062	
5°	1014	95
15°	880	245
25°	632	289
35°	364	228
45°	157	120
55°	31	31
65°	7	7
75°	2	2
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1062.1
2.5°	1048.6
5°	1013.6
7.5°	980.3
10°	951.6
12.5°	918.3
15°	879.7
17.5°	831.2
20°	773.7
22.5°	705.4
25°	631.7
27.5°	558.0
30°	491.5
32.5°	425.9
35°	363.9
37.5°	306.4
40°	253.4
42.5°	204.0
45°	157.2
47.5°	105.1
50°	69.2
52.5°	46.7
55°	30.6
57.5°	19.8
60°	13.5
62.5°	9.9
65°	7.2
67.5°	4.5
70°	2.7
72.5°	1.8
75°	1.8
77.5°	1.8
80°	0.9
82.5°	0.9
85°	0.9
87.5°	0.9
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)