

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: P642265

Luminaire Tested: ML5612LSWFL5597FS1E - 696WB - 900LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642265  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-69)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSWFL5597FS1E - 696WB - 900LM - 5000K  
Description: ML56 RR, 55D TIR OPTIC, 6" SHALLOW WHITE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

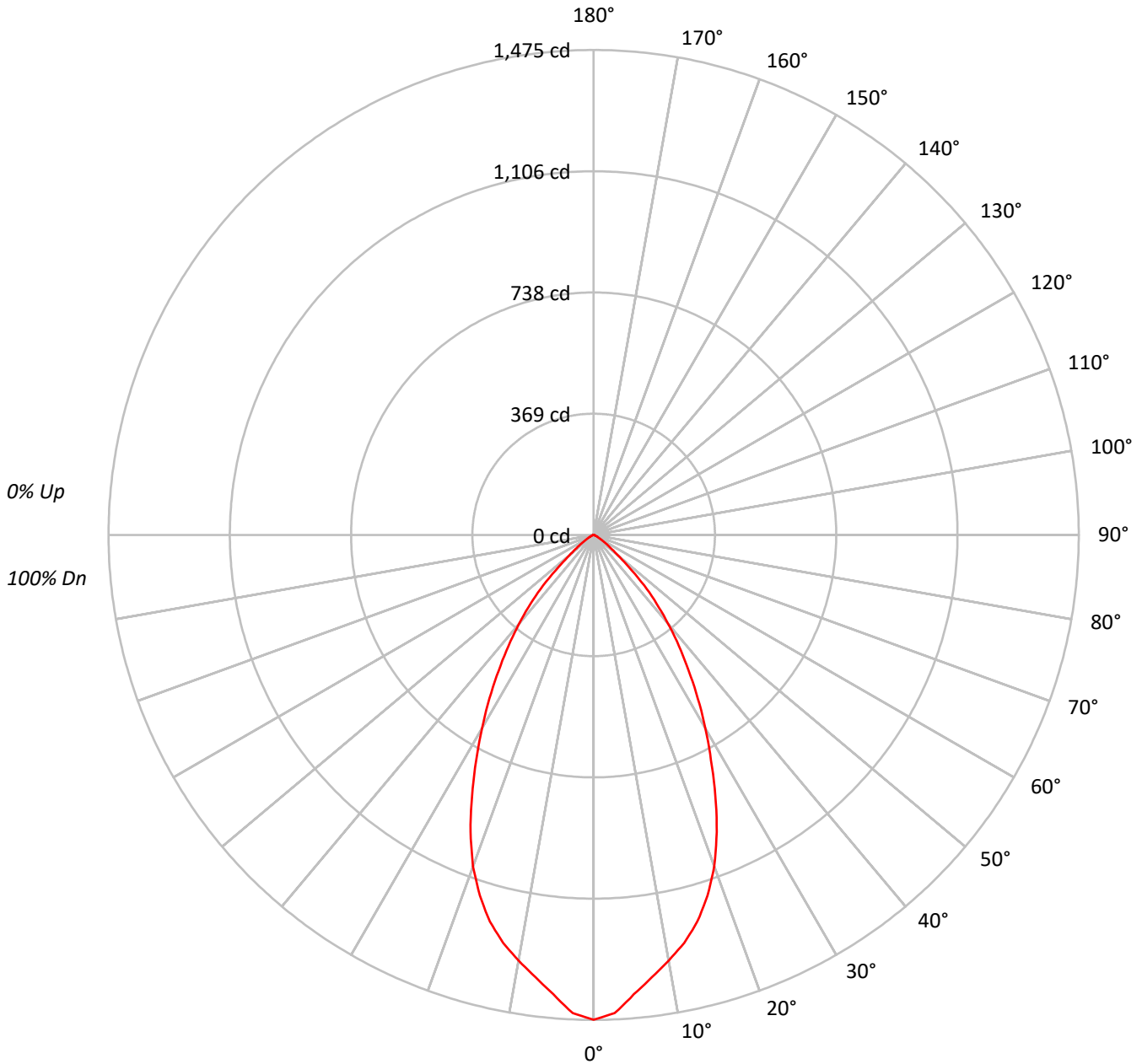
Lumens per Lamp: N/A  
Luminaire Lumens: 1408.3 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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

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

	0°
0°	80838
5°	77184
10°	73173
15°	69104
20°	62562
25°	52932
30°	42981
35°	33642
40°	25226
45°	16839
50°	8153
55°	4272
60°	2182
65°	1453
70°	593
75°	530
80°	379
85°	755

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16839 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.3	9.3
10°-20°	339.0	24.1
20°-30°	399.8	28.4
30°-40°	315.4	22.4
40°-50°	165.3	11.7
50°-60°	43.2	3.1
60°-70°	10.8	0.8
70°-80°	2.6	0.2
80°-90°	0.8	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°	870.1	61.8
0°-40°	1185.5	84.2
0°-60°	1394.0	99.0
0°-90°	1408.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1408.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1475	
5°	1403	131
15°	1218	339
25°	875	400
35°	503	315
45°	217	165
55°	45	43
65°	11	11
75°	2	3
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1474.6
2.5°	1456.0
5°	1402.6
7.5°	1356.7
10°	1314.5
12.5°	1271.0
15°	1217.6
17.5°	1150.6
20°	1072.4
22.5°	978.1
25°	875.1
27.5°	773.3
30°	679.0
32.5°	589.6
35°	502.7
37.5°	425.7
40°	352.5
42.5°	283.0
45°	217.2
47.5°	144.0
50°	95.6
52.5°	64.5
55°	44.7
57.5°	28.5
60°	19.9
62.5°	14.9
65°	11.2
67.5°	6.2
70°	3.7
72.5°	2.5
75°	2.5
77.5°	2.5
80°	1.2
82.5°	1.2
85°	1.2
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)