

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: P642212

Luminaire Tested: ML5612LSWFL5597FS1E - 693WB - 600LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642212  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-63)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSWFL5597FS1E - 693WB - 600LM - 3000K  
Description: ML56 RR, 55D TIR OPTIC, 6" WHITE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

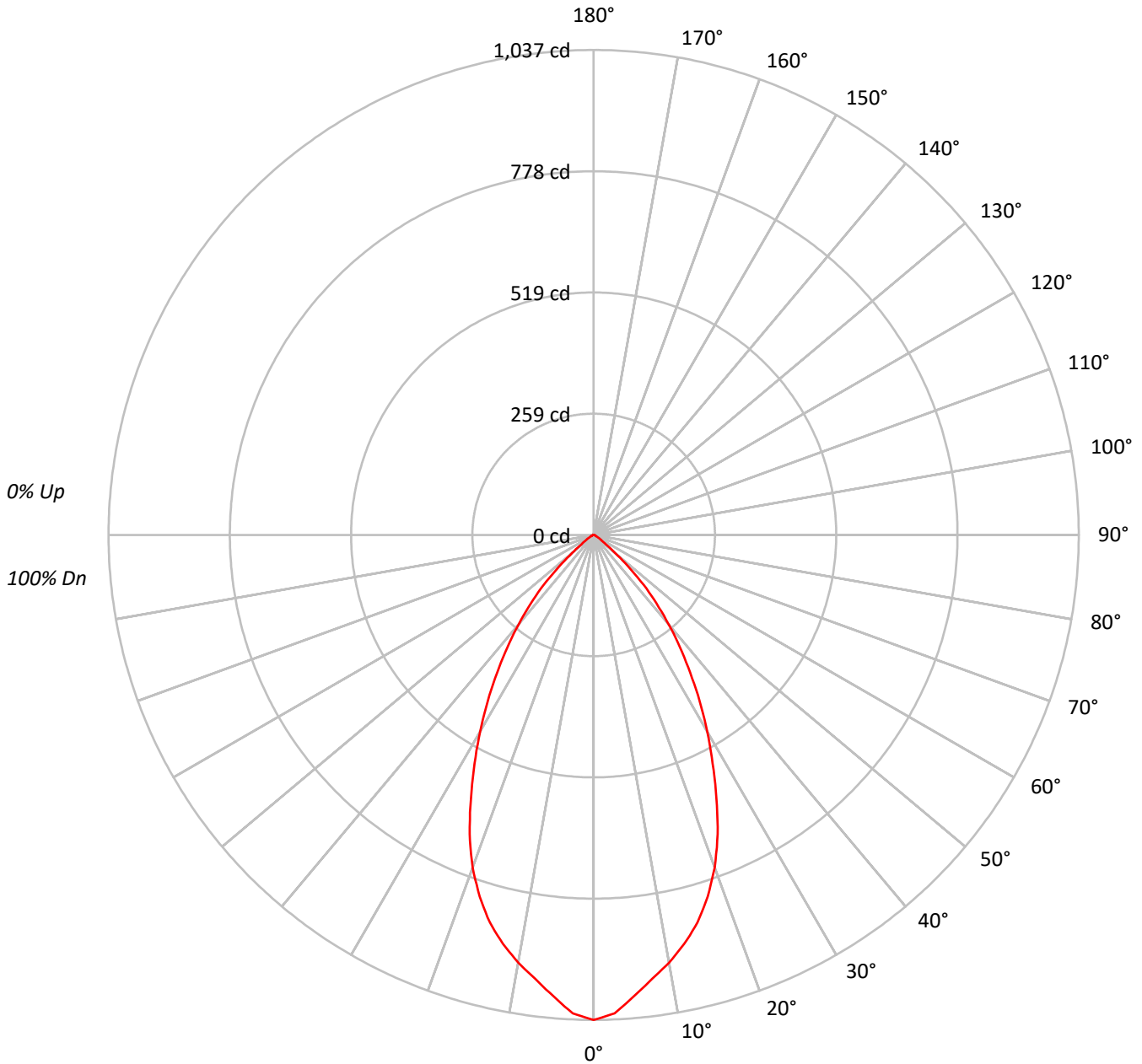
Lumens per Lamp: N/A  
Luminaire Lumens: 987.5 lumens  
Efficiency: N/A  
Efficacy: 95.9 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 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				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	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	108	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	85	83	80	78			78
4	96	87	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72			72
5	90	81	75	71	89	80	75	70	79	73	70	77	72	69	75	71	68	67			67
6	85	76	69	65	84	75	69	65	73	68	64	72	67	64	71	67	63	62			62
7	81	71	64	60	79	70	64	60	69	63	59	68	63	59	66	62	59	57			57
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53			53
9	73	62	56	52	71	62	56	52	61	55	52	60	55	51	59	55	51	50			50
10	69	59	53	49	68	58	52	48	57	52	48	57	52	48	56	51	48	47			47

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

	0°
0°	56854
5°	54474
10°	51697
15°	48689
20°	44127
25°	37557
30°	30720
35°	24052
40°	17833
45°	11730
50°	5074
55°	2093
60°	1151
65°	571
70°	561
75°	551
80°	537
85°	566

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11730 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.6	9.4
10°-20°	238.9	24.2
20°-30°	283.8	28.7
30°-40°	224.9	22.8
40°-50°	114.7	11.6
50°-60°	23.4	2.4
60°-70°	5.2	0.5
70°-80°	2.7	0.3
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°	615.4	62.3
0°-40°	840.3	85.1
0°-60°	978.4	99.1
0°-90°	987.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	987.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1037	
5°	990	93
15°	858	239
25°	621	284
35°	359	225
45°	151	115
55°	22	23
65°	4	5
75°	3	3
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1037.1
2.5°	1024.0
5°	989.9
7.5°	957.6
10°	928.7
12.5°	895.5
15°	857.9
17.5°	810.6
20°	756.4
22.5°	692.6
25°	620.9
27.5°	550.9
30°	485.3
32.5°	421.5
35°	359.4
37.5°	302.6
40°	249.2
42.5°	198.5
45°	151.3
47.5°	98.8
50°	59.5
52.5°	33.2
55°	21.9
57.5°	15.7
60°	10.5
62.5°	6.1
65°	4.4
67.5°	3.5
70°	3.5
72.5°	2.6
75°	2.6
77.5°	2.6
80°	1.7
82.5°	1.7
85°	0.9
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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(END OF REPORT)