

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: P642214

Luminaire Tested: ML5612LSWFL5597FS1E - 693WB - 600LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642214  
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 - 4000K  
Description: ML56 RR, 55D TIR OPTIC, 6" WHITE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

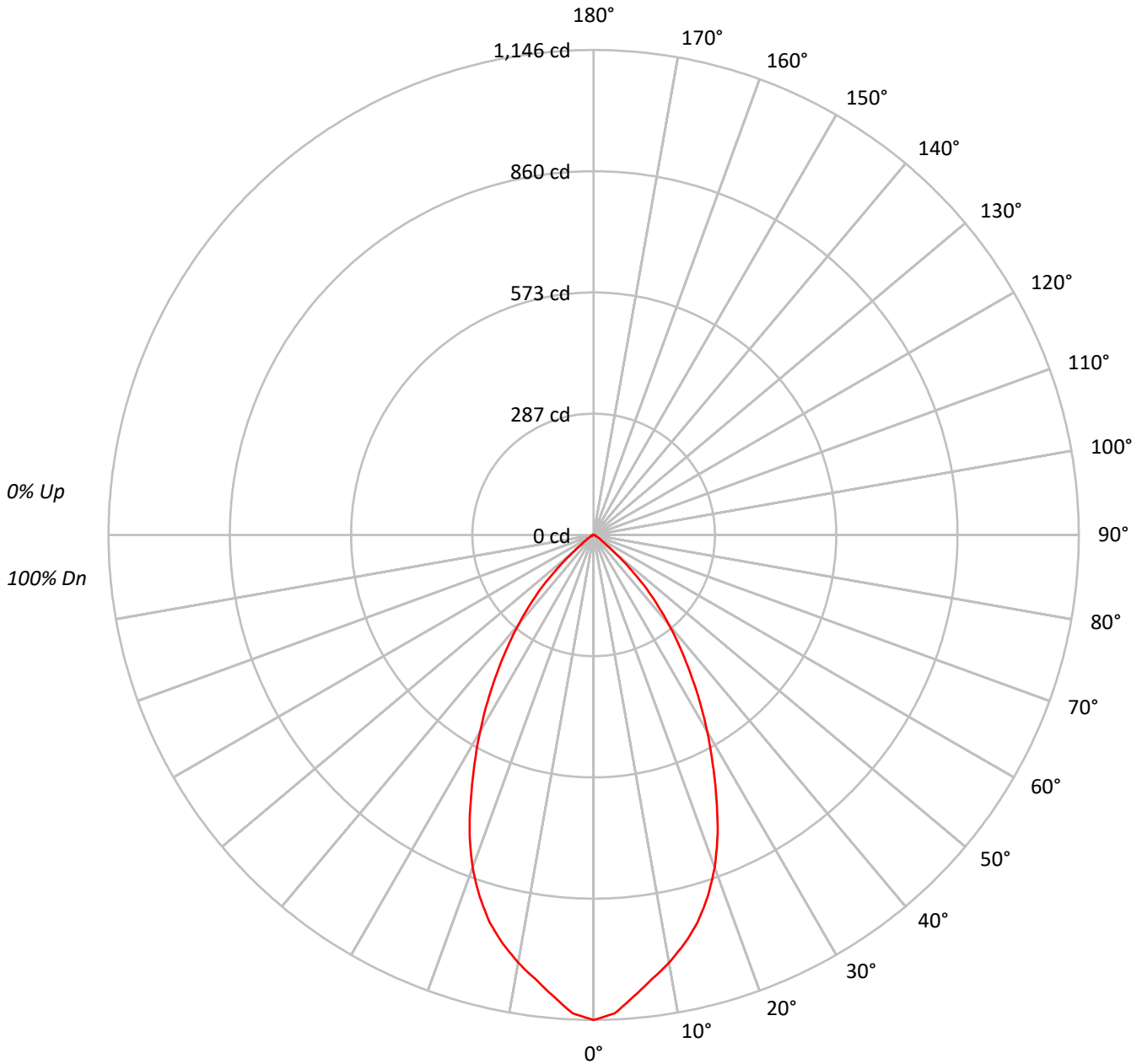
Lumens per Lamp: N/A  
Luminaire Lumens: 1091.5 lumens  
Efficiency: N/A  
Efficacy: 106.0 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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	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	99	97	97	96	94	93
	1	113	110	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93	93	97	96	94	94	93	93
	2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85	85	91	89	87	87	85	85
	3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78	78	85	83	80	80	78	78
	4	96	87	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72	72	80	77	74	74	72	72
	5	90	81	75	71	89	80	75	70	79	73	70	77	72	69	75	71	68	67	67	75	71	68	68	67	67
	6	85	76	69	65	84	75	69	65	73	68	64	72	67	64	71	67	63	62	62	71	67	63	63	62	62
	7	81	71	64	60	79	70	64	60	69	63	59	68	63	59	66	62	59	57	57	66	62	59	59	57	57
	8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53	53	64	59	55	55	53	53
	9	73	62	56	52	71	62	56	52	61	55	52	60	55	51	59	55	51	50	50	60	55	51	51	50	50
	10	69	59	53	49	68	58	52	48	57	52	48	57	52	48	56	51	48	47	47	57	52	48	48	47	47

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

	0°
0°	62840
5°	60208
10°	57141
15°	53814
20°	48771
25°	41506
30°	33955
35°	26582
40°	19716
45°	12963
50°	5603
55°	2313
60°	1272
65°	623
70°	625
75°	614
80°	600
85°	629

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12963 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.4	9.4
10°-20°	264.1	24.2
20°-30°	313.7	28.7
30°-40°	248.6	22.8
40°-50°	126.8	11.6
50°-60°	25.8	2.4
60°-70°	5.7	0.5
70°-80°	3.1	0.3
80°-90°	1.3	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°	680.2	62.3
0°-40°	928.8	85.1
0°-60°	1081.4	99.1
0°-90°	1091.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1091.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1146	
5°	1094	102
15°	948	264
25°	686	314
35°	397	249
45°	167	127
55°	24	26
65°	5	6
75°	3	3
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1146.3
2.5°	1131.8
5°	1094.1
7.5°	1058.3
10°	1026.5
12.5°	989.7
15°	948.2
17.5°	896.0
20°	836.0
22.5°	765.5
25°	686.2
27.5°	608.9
30°	536.4
32.5°	465.9
35°	397.2
37.5°	334.4
40°	275.5
42.5°	219.4
45°	167.2
47.5°	109.2
50°	65.7
52.5°	36.7
55°	24.2
57.5°	17.4
60°	11.6
62.5°	6.8
65°	4.8
67.5°	3.9
70°	3.9
72.5°	2.9
75°	2.9
77.5°	2.9
80°	1.9
82.5°	1.9
85°	1.0
87.5°	1.0
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)