

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: P641135

Luminaire Tested: ML5612LSNFL2597FS1E - 693BB - 600LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641135  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSNFL2597FS1E - 693BB - 600LM - 5000K  
Description: ML56 RR, 25D TIR OPTIC, 6" BLACK BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

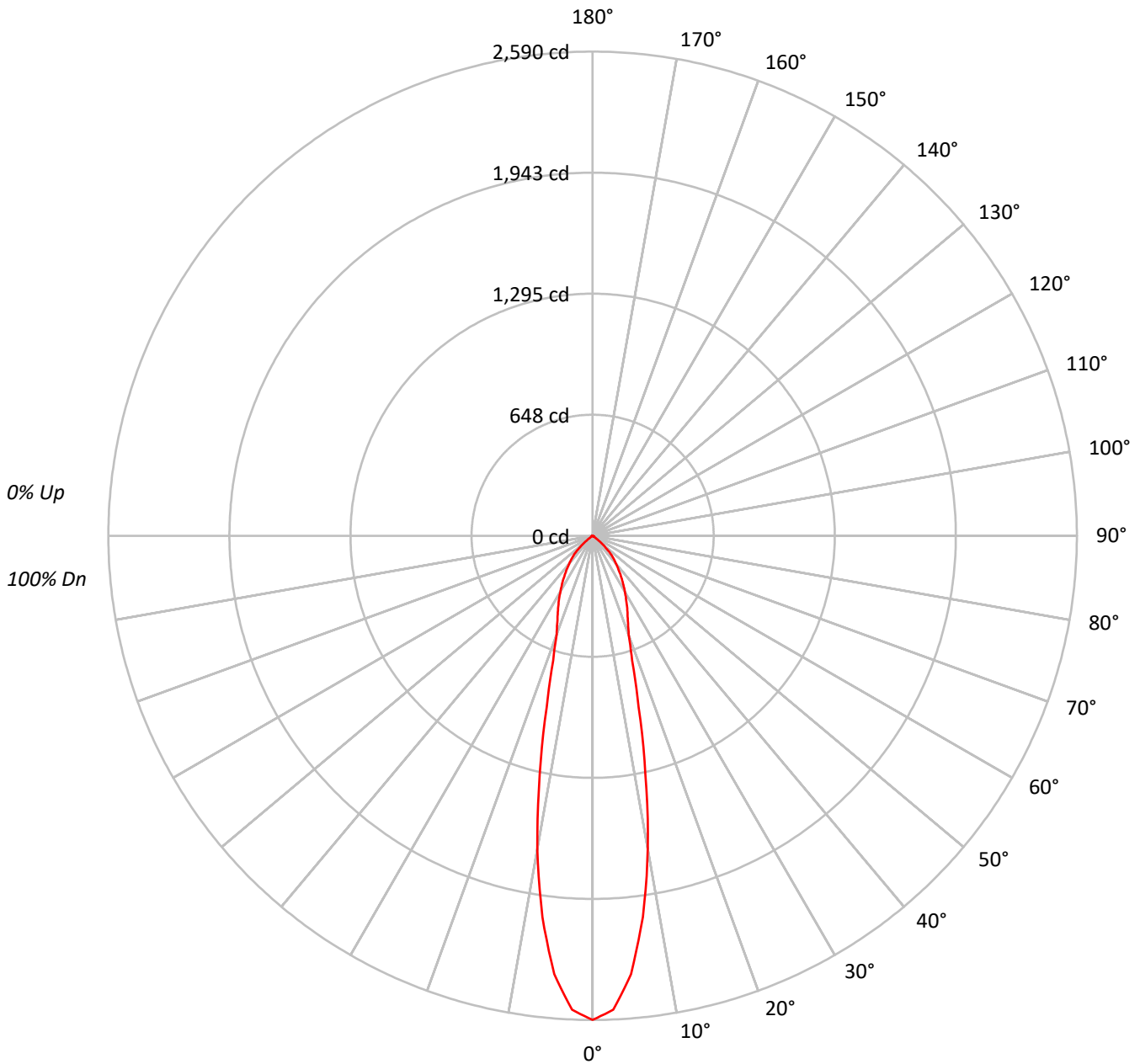
Lumens per Lamp: N/A  
Luminaire Lumens: 965.6 lumens  
Efficiency: N/A  
Efficacy: 93.8 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.43  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88																			
3	103	97	92	89	101	96	92	88	93	90	87	91	88	85	89	86	84	82																			
4	98	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77																			
5	94	86	81	76	92	85	80	76	83	79	75	82	78	75	80	77	74	73																			
6	90	81	76	72	88	80	75	71	79	74	71	78	74	70	76	73	70	69																			
7	86	77	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	65																			
8	82	73	68	64	81	73	67	64	72	67	63	71	66	63	70	66	63	62																			
9	79	70	64	60	78	69	64	60	68	64	60	67	63	60	67	63	60	59																			
10	76	67	61	58	75	66	61	57	65	61	57	65	60	57	64	60	57	56																			

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

	0°
0°	141962
5°	129512
10°	94704
15°	53877
20°	32798
25°	26572
30°	21807
35°	17614
40°	13919
45°	10575
50°	5364
55°	1204
60°	746
65°	376
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10575 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.3	21.1
10°-20°	272.8	28.2
20°-30°	202.3	21.0
30°-40°	165.1	17.1
40°-50°	100.9	10.4
50°-60°	18.3	1.9
60°-70°	3.0	0.3
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	678.4	70.3
0°-40°	843.5	87.4
0°-60°	962.7	99.7
0°-90°	965.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	965.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2590	
5°	2354	203
15°	949	273
25°	439	202
35°	263	165
45°	136	101
55°	13	18
65°	3	3
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2589.6
2.5°	2537.4
5°	2353.5
7.5°	2056.4
10°	1701.3
12.5°	1305.5
15°	949.3
17.5°	700.6
20°	562.2
22.5°	490.6
25°	439.3
27.5°	390.0
30°	344.5
32.5°	302.9
35°	263.2
37.5°	227.4
40°	194.5
42.5°	165.5
45°	136.4
47.5°	97.7
50°	62.9
52.5°	27.1
55°	12.6
57.5°	8.7
60°	6.8
62.5°	4.8
65°	2.9
67.5°	1.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
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)