

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: P641132

Luminaire Tested: ML5612LSNFL2597FS1E - 693BB - 600LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641132  
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 - 3000K  
Description: ML56 RR, 25D TIR OPTIC, 6" BLACK BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

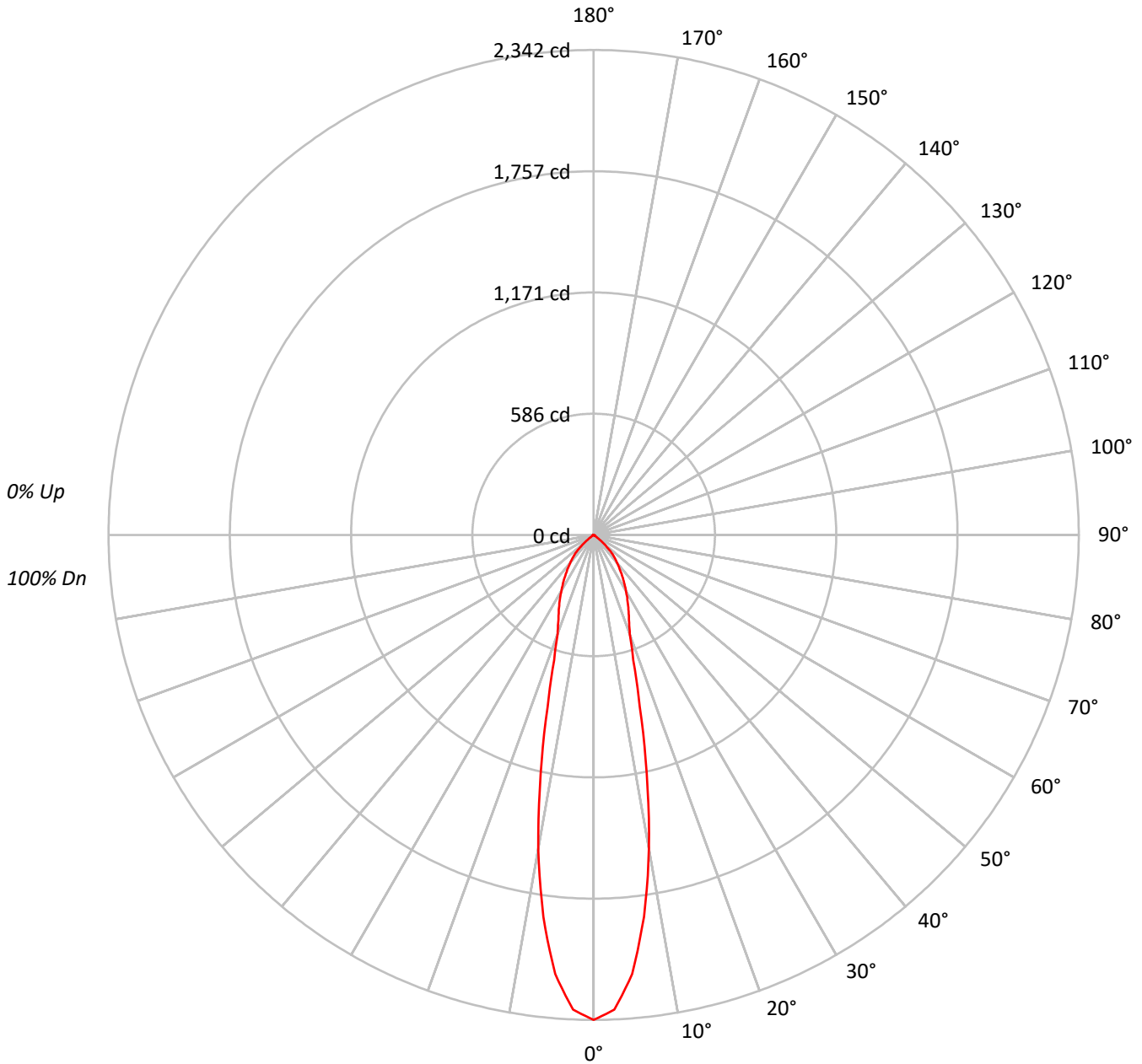
Lumens per Lamp: N/A  
Luminaire Lumens: 873.4 lumens  
Efficiency: N/A  
Efficacy: 84.8 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.43  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (Ain): 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
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	80	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°	128394
5°	117136
10°	85653
15°	48729
20°	29665
25°	24038
30°	19725
35°	15934
40°	12588
45°	9567
50°	4853
55°	1090
60°	669
65°	337
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9567 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.9	21.1
10°-20°	246.7	28.2
20°-30°	183.0	21.0
30°-40°	149.3	17.1
40°-50°	91.3	10.4
50°-60°	16.5	1.9
60°-70°	2.7	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°	613.6	70.3
0°-40°	763.0	87.4
0°-60°	870.7	99.7
0°-90°	873.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	873.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2342	
5°	2129	184
15°	859	247
25°	397	183
35°	238	149
45°	123	91
55°	11	17
65°	3	3
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2342.1
2.5°	2294.9
5°	2128.6
7.5°	1859.9
10°	1538.7
12.5°	1180.7
15°	858.6
17.5°	633.7
20°	508.5
22.5°	443.7
25°	397.4
27.5°	352.7
30°	311.6
32.5°	273.9
35°	238.1
37.5°	205.7
40°	175.9
42.5°	149.7
45°	123.4
47.5°	88.4
50°	56.9
52.5°	24.5
55°	11.4
57.5°	7.9
60°	6.1
62.5°	4.4
65°	2.6
67.5°	0.9
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)