

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: P641140

Luminaire Tested: ML5612LSNFL2597FS1E - 693BB - 900LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641140  
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 - 900LM - 5000K  
Description: ML56 RR, 25D TIR OPTIC, 6" BLACK BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

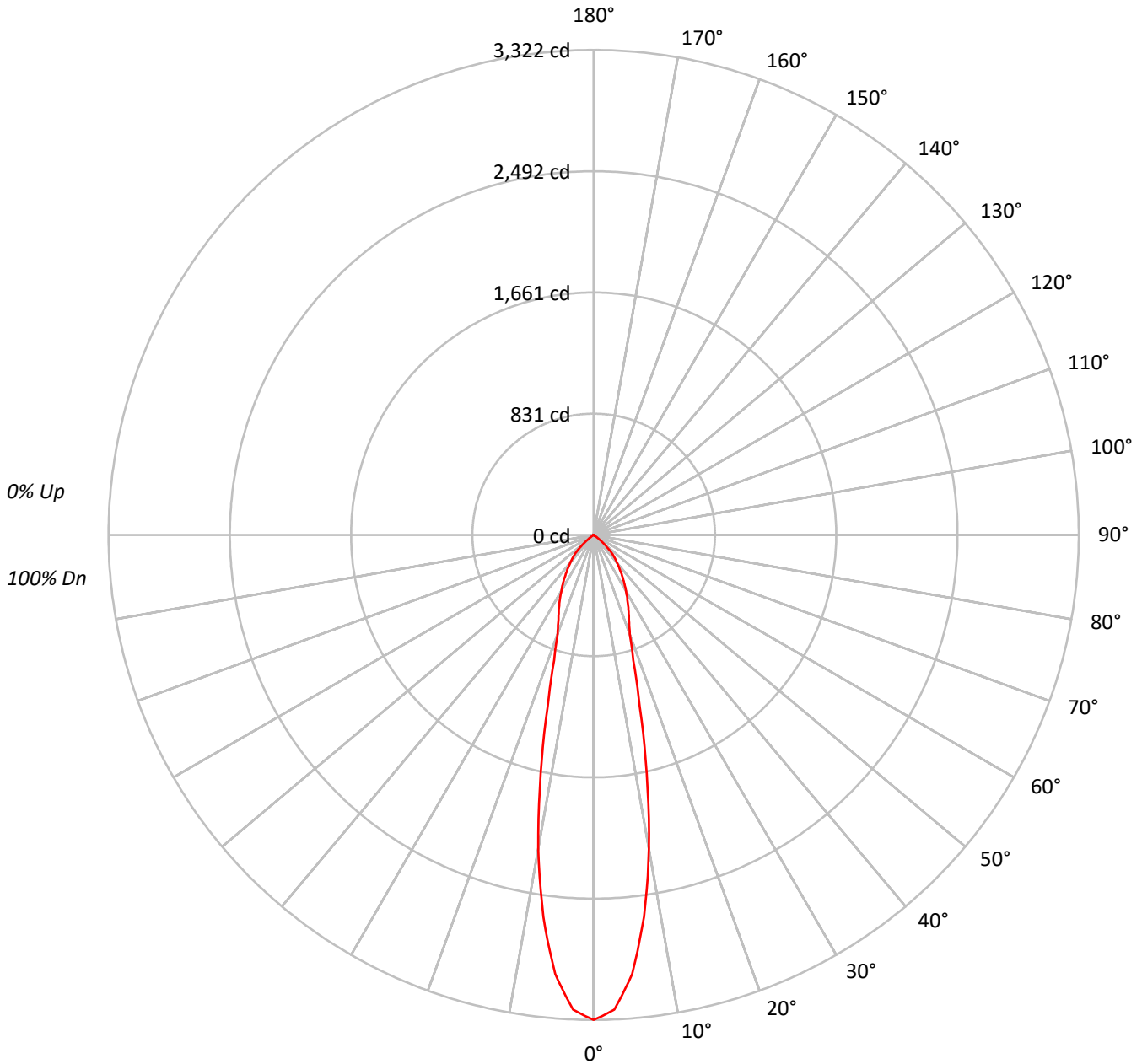
Lumens per Lamp: N/A  
Luminaire Lumens: 1238.9 lumens  
Efficiency: N/A  
Efficacy: 93.2 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.43  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 13.3  
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	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°	182135
5°	166162
10°	121502
15°	69126
20°	42079
25°	34097
30°	27979
35°	22600
40°	17862
45°	13575
50°	6883
55°	1539
60°	954
65°	480
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13575 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.9	21.1
10°-20°	350.0	28.2
20°-30°	259.6	21.0
30°-40°	211.8	17.1
40°-50°	129.5	10.4
50°-60°	23.4	1.9
60°-70°	3.8	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°	870.4	70.3
0°-40°	1082.3	87.4
0°-60°	1235.2	99.7
0°-90°	1238.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1238.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3322	
5°	3020	261
15°	1218	350
25°	564	260
35°	338	212
45°	175	129
55°	16	23
65°	4	4
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3322.4
2.5°	3255.4
5°	3019.5
7.5°	2638.3
10°	2182.7
12.5°	1674.9
15°	1218.0
17.5°	898.9
20°	721.3
22.5°	629.5
25°	563.7
27.5°	500.3
30°	442.0
32.5°	388.6
35°	337.7
37.5°	291.8
40°	249.6
42.5°	212.3
45°	175.1
47.5°	125.4
50°	80.7
52.5°	34.8
55°	16.1
57.5°	11.2
60°	8.7
62.5°	6.2
65°	3.7
67.5°	1.2
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)