

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: P641180

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

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641180  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSNFL2597FS1E - 693WB - 600LM - 5000K  
Description: ML56 RR, 25D TIR OPTIC, 6" WHITE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

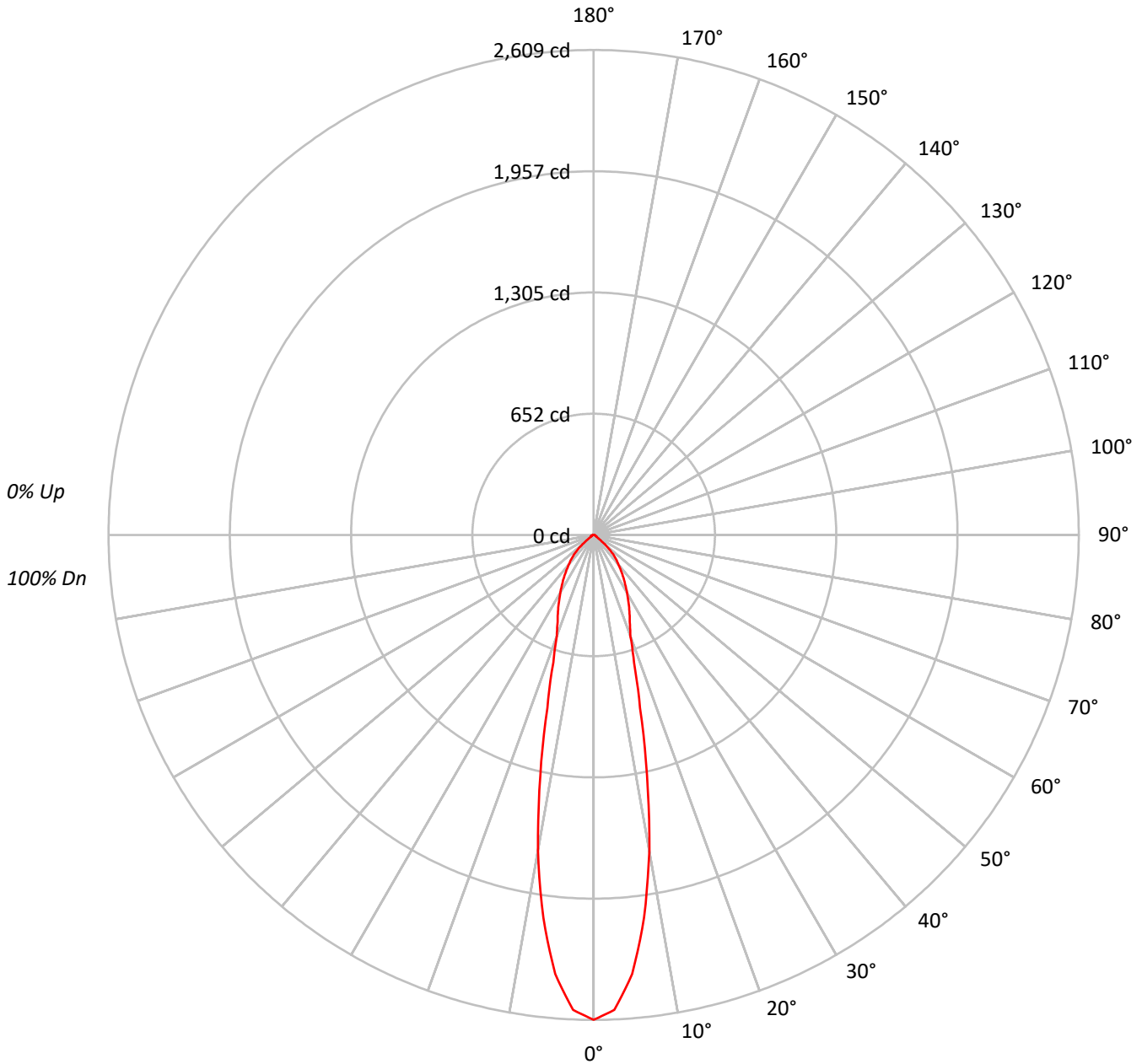
Lumens per Lamp: N/A  
Luminaire Lumens: 1031.9 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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									
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	113	110	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93																			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86																			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80																			
4	97	90	84	80	95	88	83	79	86	82	78	84	81	77	82	79	77	75																			
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70																			
6	88	79	73	69	87	79	73	69	77	72	68	76	71	68	74	71	68	66																			
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62																			
8	80	71	65	61	79	71	65	61	70	64	61	68	64	61	68	63	60	59																			
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	60	57	56																			
10	74	65	59	55	73	64	59	55	63	58	55	63	58	55	62	58	55	53																			

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

	0°
0°	143004
5°	130508
10°	95946
15°	54671
20°	33685
25°	27498
30°	22655
35°	18578
40°	14885
45°	11699
50°	6678
55°	2399
60°	2017
65°	1751
70°	1555
75°	1631
80°	1831
85°	1824

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11699 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.2	19.9
10°-20°	277.8	26.9
20°-30°	209.3	20.3
30°-40°	173.7	16.8
40°-50°	111.9	10.8
50°-60°	29.7	2.9
60°-70°	13.3	1.3
70°-80°	8.2	0.8
80°-90°	2.9	0.3
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°	692.3	67.1
0°-40°	866.0	83.9
0°-60°	1007.6	97.6
0°-90°	1031.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1031.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2609	
5°	2372	205
15°	963	278
25°	455	209
35°	278	174
45°	151	112
55°	25	30
65°	14	13
75°	8	8
85°	3	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2608.6
2.5°	2557.3
5°	2371.6
7.5°	2076.6
10°	1723.6
12.5°	1324.1
15°	963.3
17.5°	720.6
20°	577.4
22.5°	506.8
25°	454.6
27.5°	404.3
30°	357.9
32.5°	316.3
35°	277.6
37.5°	240.8
40°	208.0
42.5°	178.9
45°	150.9
47.5°	112.2
50°	78.3
52.5°	40.6
55°	25.1
57.5°	20.3
60°	18.4
62.5°	15.5
65°	13.5
67.5°	10.6
70°	9.7
72.5°	8.7
75°	7.7
77.5°	6.8
80°	5.8
82.5°	3.9
85°	2.9
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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Scaled Data Report



(END OF REPORT)