

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: P641058

Luminaire Tested: ML5612LSNFL2597FS1E - 596WB - 600LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641058  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSNFL2597FS1E - 596WB - 600LM - 3500K  
Description: ML56 RR, 25D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

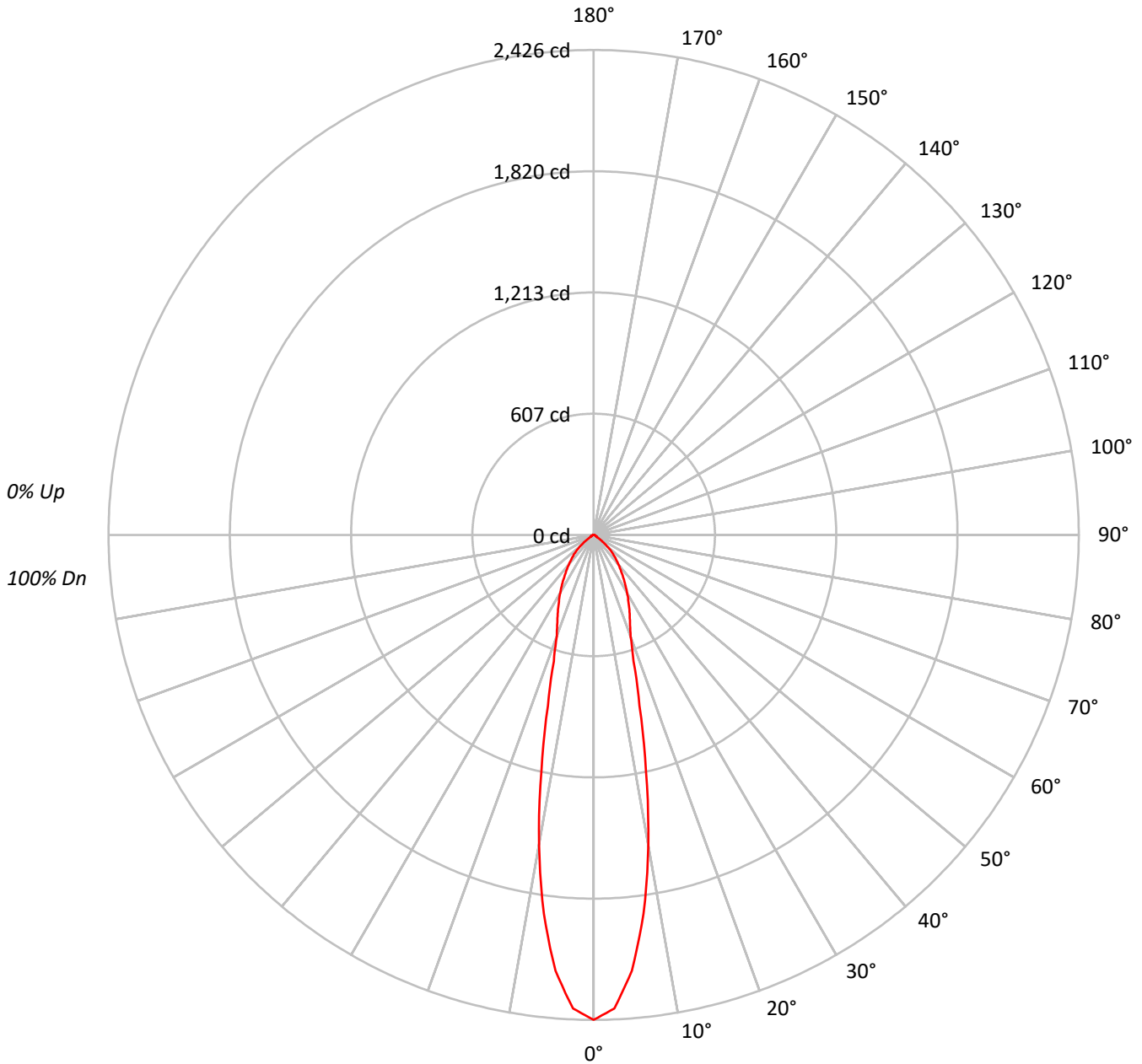
Lumens per Lamp: N/A  
Luminaire Lumens: 967.7 lumens  
Efficiency: N/A  
Efficacy: 94.0 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.44  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

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	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93																			
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86																			
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80																			
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75																			
5	92	84	78	73	90	83	77	73	81	76	72	79	75	72	78	74	71	70																			
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65																			
7	84	74	68	64	82	74	68	64	72	67	64	71	67	63	70	66	63	62																			
8	80	71	65	61	79	70	64	60	69	64	60	68	63	60	67	63	60	58																			
9	76	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55																			
10	73	64	58	54	72	63	58	54	63	58	54	62	57	54	61	57	54	53																			

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

	0°
0°	191487
5°	173414
10°	126290
15°	72352
20°	45221
25°	36949
30°	30472
35°	24680
40°	19817
45°	15752
50°	10599
55°	4831
60°	2700
65°	2522
70°	2077
75°	1922
80°	2046
85°	2446

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15752 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.1	19.5
10°-20°	254.9	26.3
20°-30°	195.2	20.2
30°-40°	160.8	16.6
40°-50°	107.7	11.1
50°-60°	37.4	3.9
60°-70°	13.0	1.3
70°-80°	7.0	0.7
80°-90°	2.6	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°	639.2	66.1
0°-40°	800.1	82.7
0°-60°	945.1	97.7
0°-90°	967.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	967.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2426	
5°	2188	189
15°	885	255
25°	424	195
35°	256	161
45°	141	108
55°	35	37
65°	14	13
75°	6	7
85°	3	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2425.7
2.5°	2370.9
5°	2188.4
7.5°	1911.6
10°	1575.5
12.5°	1207.9
15°	885.3
17.5°	662.4
20°	538.3
22.5°	473.6
25°	424.2
27.5°	376.6
30°	334.3
32.5°	293.9
35°	256.1
37.5°	222.0
40°	192.3
42.5°	165.4
45°	141.1
47.5°	115.9
50°	86.3
52.5°	61.1
55°	35.1
57.5°	21.6
60°	17.1
62.5°	15.3
65°	13.5
67.5°	10.8
70°	9.0
72.5°	7.2
75°	6.3
77.5°	6.3
80°	4.5
82.5°	3.6
85°	2.7
87.5°	0.9
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)