

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: P641216

Luminaire Tested: ML5612LSNFL2597FS1E - 696WB - 1200LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641216  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-23)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSNFL2597FS1E - 696WB - 1200LM - 2700K  
Description: ML56 RR, 25D TIR OPTIC, 6" SHALLOW WHITE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1435.6 lumens  
Efficiency: N/A  
Efficacy: 87.0 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

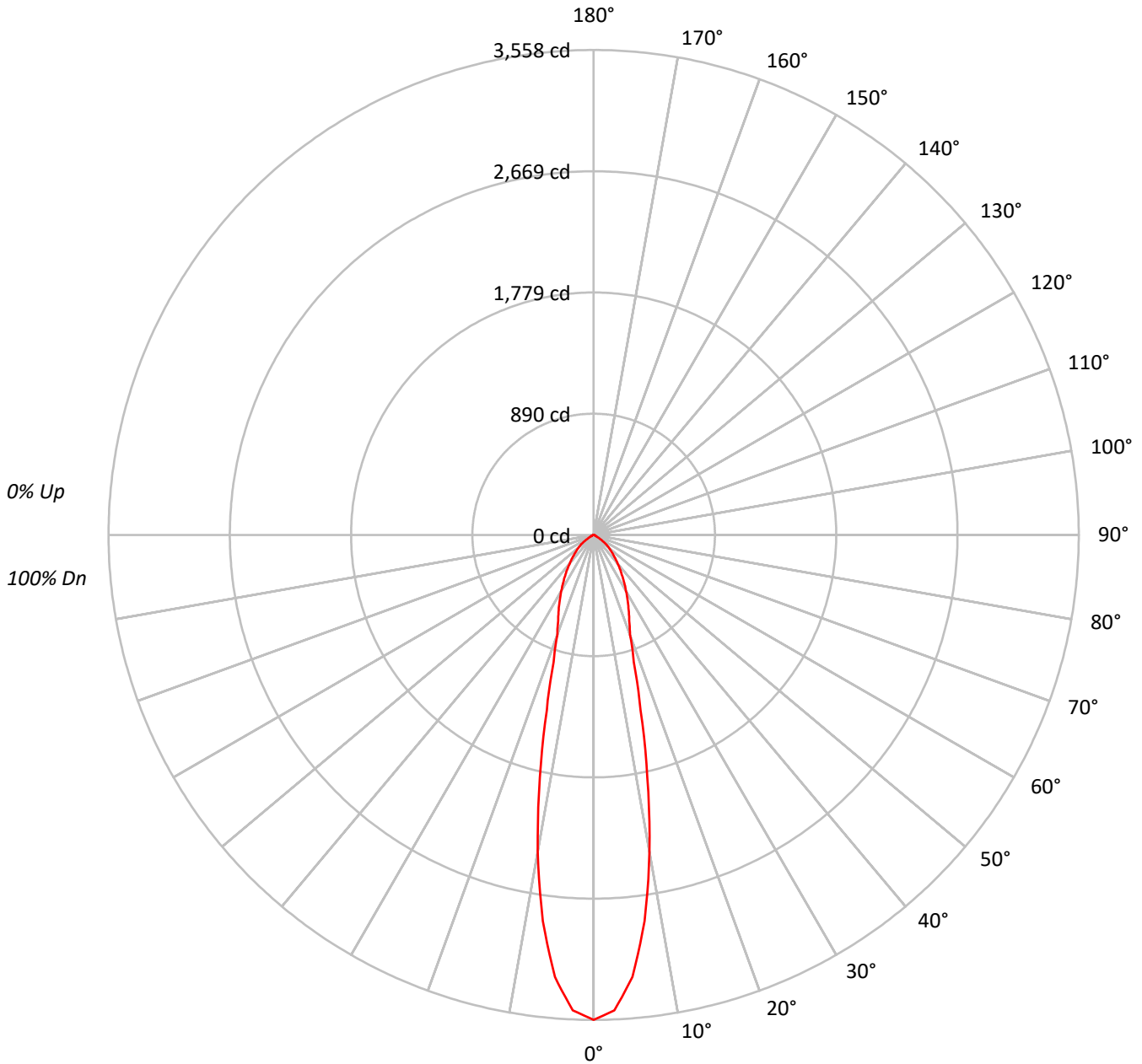
Input Watts (W): 16.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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	85	91	87	84	89	85	83	87	84	81	80																			
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	78	76	74																			
5	92	83	77	73	90	82	77	73	81	76	72	79	75	71	77	74	71	69																			
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	70	67	65																			
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61																			
8	80	70	64	60	78	70	64	60	69	63	60	68	63	60	67	62	59	58																			
9	76	67	61	57	75	66	61	57	65	60	57	64	60	57	64	59	56	55																			
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52																			

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

	0°
0°	195061
5°	179171
10°	131338
15°	75460
20°	45521
25°	36734
30°	30087
35°	24387
40°	19558
45°	15560
50°	12273
55°	8583
60°	3761
65°	2231
70°	1699
75°	1398
80°	1263
85°	1635

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15560 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	281.5	19.6
10°-20°	380.4	26.5
20°-30°	280.1	19.5
30°-40°	228.8	15.9
40°-50°	156.3	10.9
50°-60°	79.7	5.6
60°-70°	18.9	1.3
70°-80°	7.1	0.5
80°-90°	2.7	0.2
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°	942.0	65.6
0°-40°	1170.9	81.6
0°-60°	1406.9	98.0
0°-90°	1435.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1435.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3558	
5°	3256	282
15°	1330	380
25°	607	280
35°	364	229
45°	201	156
55°	90	80
65°	17	19
75°	7	7
85°	3	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3558.2
2.5°	3490.9
5°	3255.9
7.5°	2857.1
10°	2359.4
12.5°	1820.7
15°	1329.6
17.5°	978.3
20°	780.3
22.5°	681.3
25°	607.3
27.5°	538.7
30°	475.3
32.5°	417.2
35°	364.4
37.5°	316.9
40°	273.3
42.5°	235.0
45°	200.7
47.5°	170.3
50°	143.9
52.5°	120.1
55°	89.8
57.5°	60.7
60°	34.3
62.5°	22.4
65°	17.2
67.5°	14.5
70°	10.6
72.5°	7.9
75°	6.6
77.5°	5.3
80°	4.0
82.5°	4.0
85°	2.6
87.5°	1.3
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)