

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: P641055

Luminaire Tested: ML5612LSNFL2597FS1E - 596WB - 1200LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641055  
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 - 1200LM - 5000K  
Description: ML56 RR, 25D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

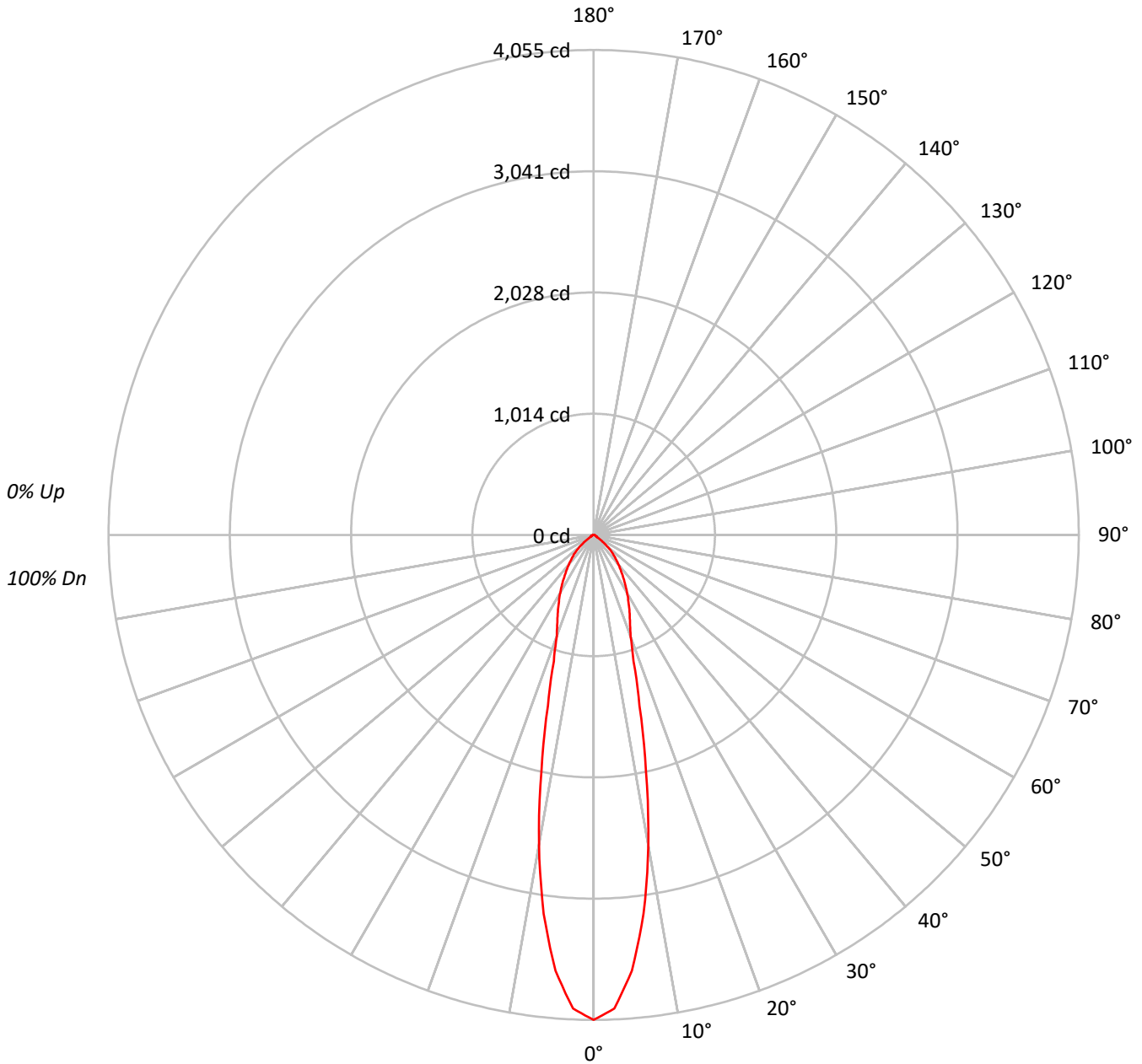
Lumens per Lamp: N/A  
Luminaire Lumens: 1617.6 lumens  
Efficiency: N/A  
Efficacy: 98.0 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.44  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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	69	86	78	72	68	76	72	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°	320113
5°	289901
10°	211122
15°	120946
20°	75606
25°	61764
30°	50945
35°	41265
40°	33131
45°	26336
50°	17709
55°	8065
60°	4500
65°	4203
70°	3462
75°	3203
80°	3410
85°	4076

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 26336 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	316.1	19.5
10°-20°	426.1	26.3
20°-30°	326.4	20.2
30°-40°	268.9	16.6
40°-50°	180.0	11.1
50°-60°	62.5	3.9
60°-70°	21.7	1.3
70°-80°	11.7	0.7
80°-90°	4.3	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°	1068.6	66.1
0°-40°	1337.5	82.7
0°-60°	1580.0	97.7
0°-90°	1617.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1617.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4055	
5°	3658	316
15°	1480	426
25°	709	326
35°	428	269
45°	236	180
55°	59	62
65°	22	22
75°	10	12
85°	4	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4055.1
2.5°	3963.4
5°	3658.4
7.5°	3195.7
10°	2633.8
12.5°	2019.3
15°	1479.9
17.5°	1107.3
20°	900.0
22.5°	791.8
25°	709.1
27.5°	629.5
30°	558.9
32.5°	491.3
35°	428.2
37.5°	371.1
40°	321.5
42.5°	276.4
45°	235.9
47.5°	193.8
50°	144.2
52.5°	102.2
55°	58.6
57.5°	36.1
60°	28.5
62.5°	25.5
65°	22.5
67.5°	18.0
70°	15.0
72.5°	12.0
75°	10.5
77.5°	10.5
80°	7.5
82.5°	6.0
85°	4.5
87.5°	1.5
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)