

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: P642867

Luminaire Tested: ML5615LSNFL259FS1E - 596WB - 1200LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642867  
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: ML5615LSNFL259FS1E - 596WB - 1200LM - 3000K  
Description: ML56 RR, 25D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

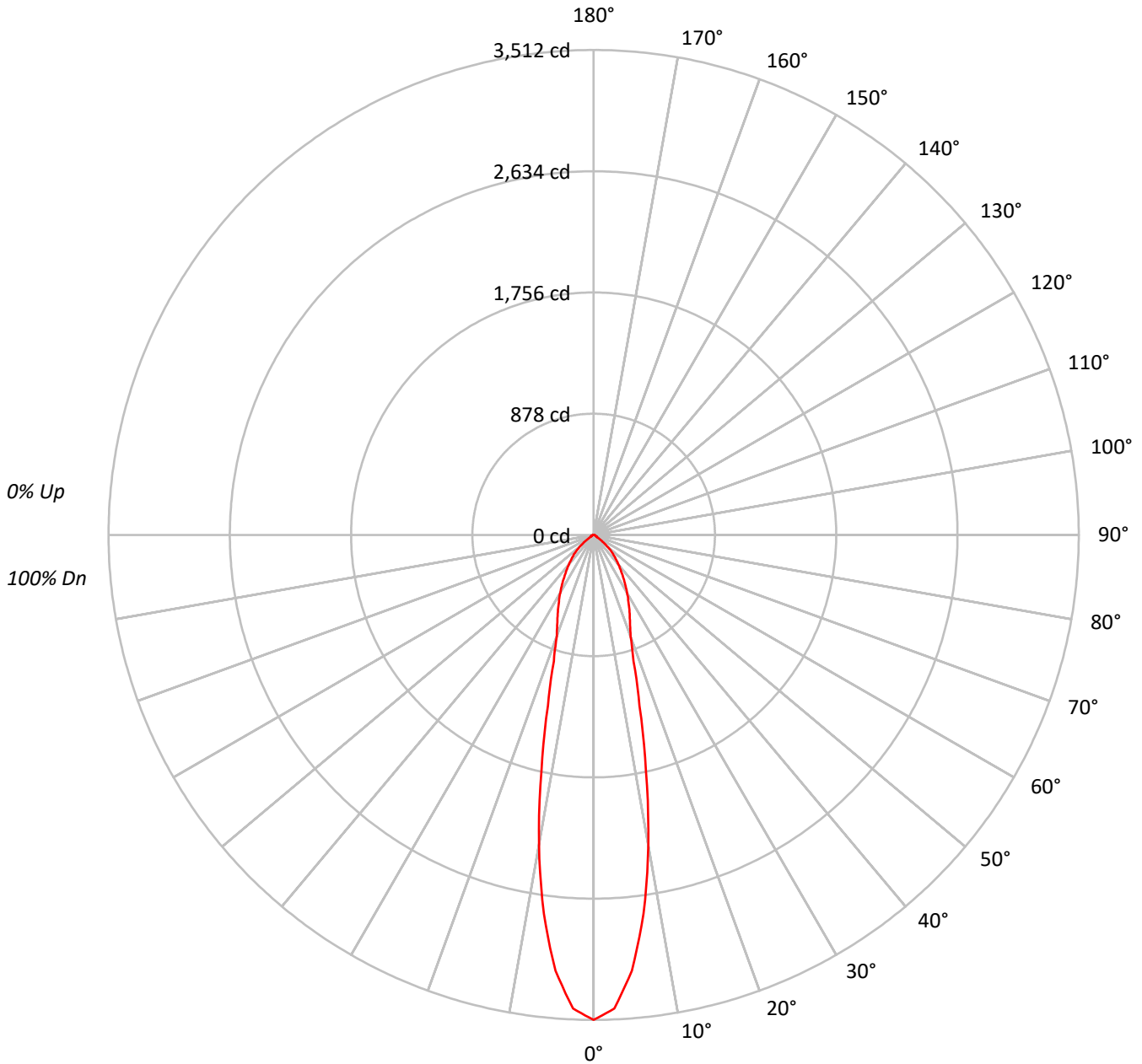
Lumens per Lamp: N/A  
Luminaire Lumens: 1401.0 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.44  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 13.4  
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	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°	277241
5°	251080
10°	182850
15°	104748
20°	65475
25°	53498
30°	44127
35°	35743
40°	28699
45°	22808
50°	15339
55°	6978
60°	3900
65°	3642
70°	3001
75°	2776
80°	2955
85°	3532

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 22808 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	273.8	19.5
10°-20°	369.0	26.3
20°-30°	282.7	20.2
30°-40°	232.9	16.6
40°-50°	155.9	11.1
50°-60°	54.1	3.9
60°-70°	18.8	1.3
70°-80°	10.1	0.7
80°-90°	3.7	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°	925.5	66.1
0°-40°	1158.4	82.7
0°-60°	1368.4	97.7
0°-90°	1401.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1401.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3512	
5°	3168	274
15°	1282	369
25°	614	283
35°	371	233
45°	204	156
55°	51	54
65°	20	19
75°	9	10
85°	4	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3512.0
2.5°	3432.7
5°	3168.5
7.5°	2767.7
10°	2281.1
12.5°	1748.9
15°	1281.7
17.5°	959.0
20°	779.4
22.5°	685.8
25°	614.2
27.5°	545.2
30°	484.1
32.5°	425.5
35°	370.9
37.5°	321.4
40°	278.5
42.5°	239.4
45°	204.3
47.5°	167.9
50°	124.9
52.5°	88.5
55°	50.7
57.5°	31.2
60°	24.7
62.5°	22.1
65°	19.5
67.5°	15.6
70°	13.0
72.5°	10.4
75°	9.1
77.5°	9.1
80°	6.5
82.5°	5.2
85°	3.9
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)