

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: P642748

Luminaire Tested: ML5615LSNFL259FS1E - 592W - 1200LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642748  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-4)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSNFL259FS1E - 592W - 1200LM - 3500K  
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1396.4 lumens  
Efficiency: N/A  
Efficacy: 104.2 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

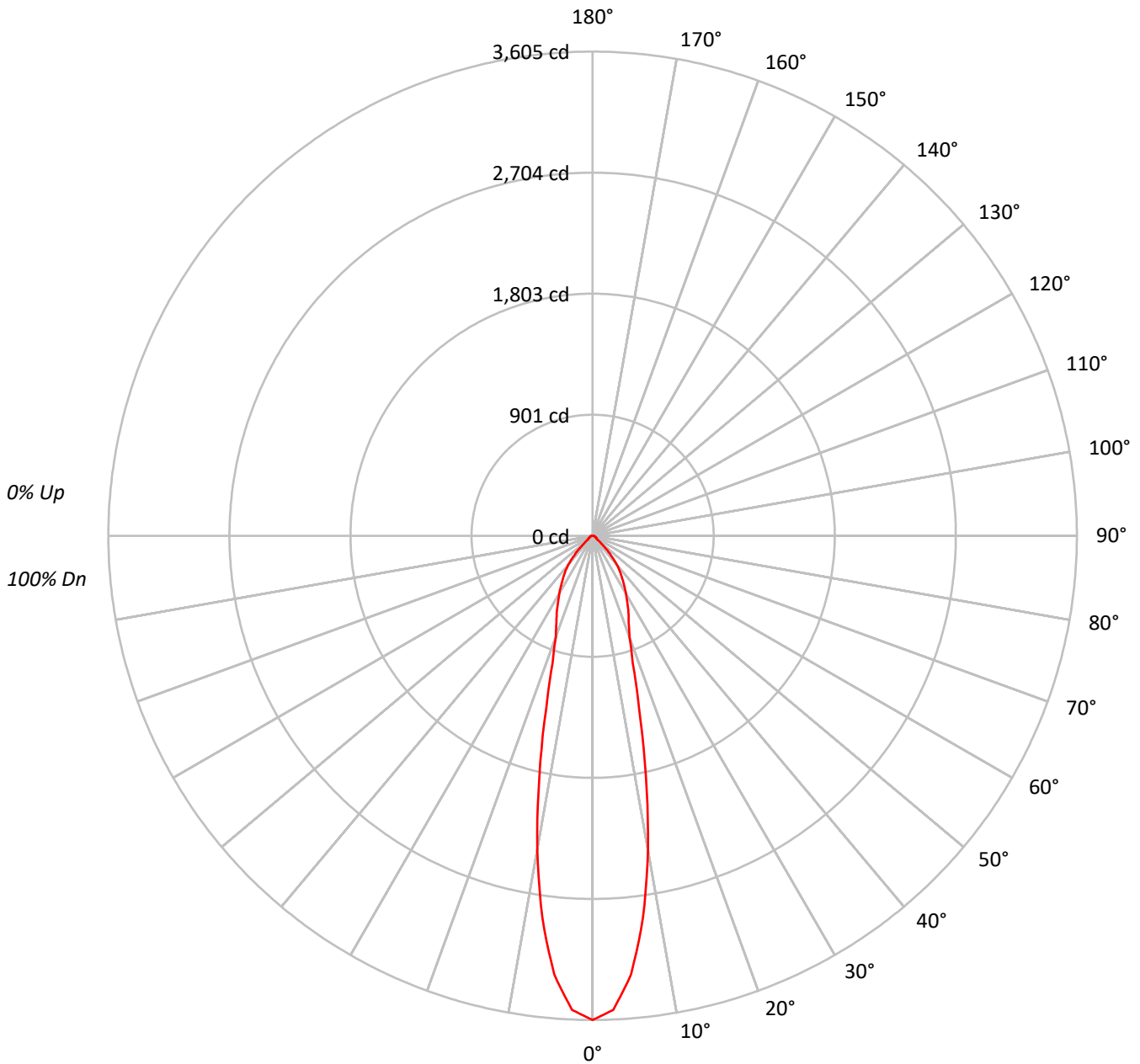
Input Watts (W): 13.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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				100															
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93				93															
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86				86															
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81				81															
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	79	77	75				75															
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71				71															
6	88	80	74	70	87	79	73	69	77	73	69	76	72	69	75	71	68	67				67															
7	85	76	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63				63															
8	81	72	66	62	80	71	66	62	70	65	62	69	65	61	68	64	61	60				60															
9	78	68	63	59	76	68	62	59	67	62	59	66	62	58	65	61	58	57				57															
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	63	58	55	54				54															

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

	0°
0°	284582
5°	259836
10°	190225
15°	109202
20°	67239
25°	54935
30°	45066
35°	36697
40°	28916
45°	17896
50°	6730
55°	5147
60°	4847
65°	4502
70°	4316
75°	4484
80°	4273
85°	3623

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17896 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.5	20.3
10°-20°	383.5	27.5
20°-30°	289.8	20.8
30°-40°	238.7	17.1
40°-50°	122.1	8.7
50°-60°	34.9	2.5
60°-70°	24.0	1.7
70°-80°	15.3	1.1
80°-90°	4.5	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°	956.8	68.5
0°-40°	1195.6	85.6
0°-60°	1352.6	96.9
0°-90°	1396.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1396.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3605	
5°	3279	283
15°	1336	384
25°	631	290
35°	381	239
45°	160	122
55°	37	35
65°	24	24
75°	15	15
85°	4	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3605.0
2.5°	3532.9
5°	3279.0
7.5°	2870.1
10°	2373.1
12.5°	1827.9
15°	1336.2
17.5°	990.1
20°	800.4
22.5°	702.8
25°	630.7
27.5°	558.5
30°	494.4
32.5°	435.6
35°	380.8
37.5°	332.7
40°	280.6
42.5°	216.5
45°	160.3
47.5°	98.9
50°	54.8
52.5°	42.8
55°	37.4
57.5°	33.4
60°	30.7
62.5°	26.7
65°	24.1
67.5°	21.4
70°	18.7
72.5°	17.4
75°	14.7
77.5°	12.0
80°	9.4
82.5°	6.7
85°	4.0
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)