

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: P642791

Luminaire Tested: ML5615LSNFL259FS1E - 593TBZB - 1200LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642791  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSNFL259FS1E - 593TBZB - 1200LM - 2700K  
Description: ML56 RR, 25D TIR OPTIC, 5" TUSCON BRONZE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1232.8 lumens  
Efficiency: N/A  
Efficacy: 92.0 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

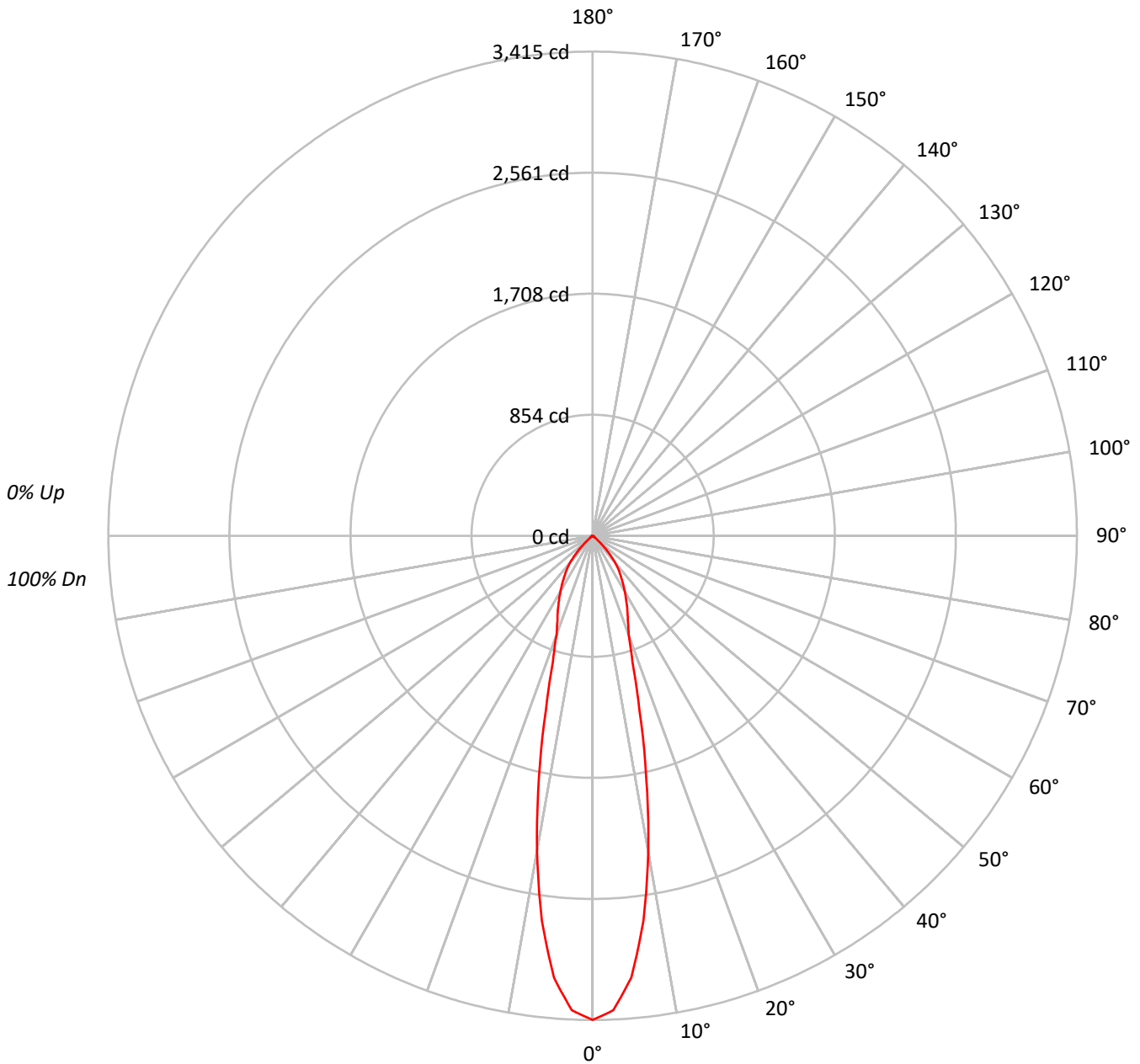
Input Watts (W): 13.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					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	114	111	109	107	111	109	107	105	105	104	102	101	100	99	98	97	96	94			94	
2	109	104	101	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89			89	
3	104	98	93	90	102	97	92	89	94	90	88	92	89	86	89	87	85	83			83	
4	99	92	87	83	97	91	86	83	89	85	82	87	84	81	85	82	80	78			78	
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74			74	
6	91	82	77	73	89	82	77	73	80	76	72	79	75	72	78	74	71	70			70	
7	87	78	73	69	86	78	72	69	76	72	68	75	71	68	74	71	68	66			66	
8	83	75	69	65	82	74	69	65	73	68	65	72	68	65	71	67	64	63			63	
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	64	61	60			60	
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	65	62	59	58			58	

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

	0°
0°	269567
5°	247839
10°	181135
15°	104020
20°	62283
25°	50475
30°	41283
35°	33286
40°	25422
45°	14268
50°	3733
55°	1913
60°	1200
65°	467
70°	300
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14268 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	270.1	21.9
10°-20°	363.7	29.5
20°-30°	266.8	21.6
30°-40°	216.0	17.5
40°-50°	98.5	8.0
50°-60°	14.0	1.1
60°-70°	3.3	0.3
70°-80°	0.5	0.0
80°-90°	0.0	0.0
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°	900.5	73.0
0°-40°	1116.5	90.6
0°-60°	1229.0	99.7
0°-90°	1232.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1232.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3415	
5°	3128	270
15°	1273	364
25°	580	267
35°	345	216
45°	128	98
55°	14	14
65°	2	3
75°	0	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3414.8
2.5°	3350.3
5°	3127.6
7.5°	2739.2
10°	2259.7
12.5°	1746.0
15°	1272.8
17.5°	931.2
20°	741.4
22.5°	647.8
25°	579.5
27.5°	513.7
30°	452.9
32.5°	397.3
35°	345.4
37.5°	298.6
40°	246.7
42.5°	183.5
45°	127.8
47.5°	70.9
50°	30.4
52.5°	19.0
55°	13.9
57.5°	11.4
60°	7.6
62.5°	5.1
65°	2.5
67.5°	1.3
70°	1.3
72.5°	1.3
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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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Scaled Data Report



(END OF REPORT)