

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P643009

Luminaire Tested: ML5615LSNFL259FS1E - 694TBZB - 1500LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643009  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-22)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSNFL259FS1E - 694TBZB - 1500LM - 4000K  
Description: ML56 RR, 25D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

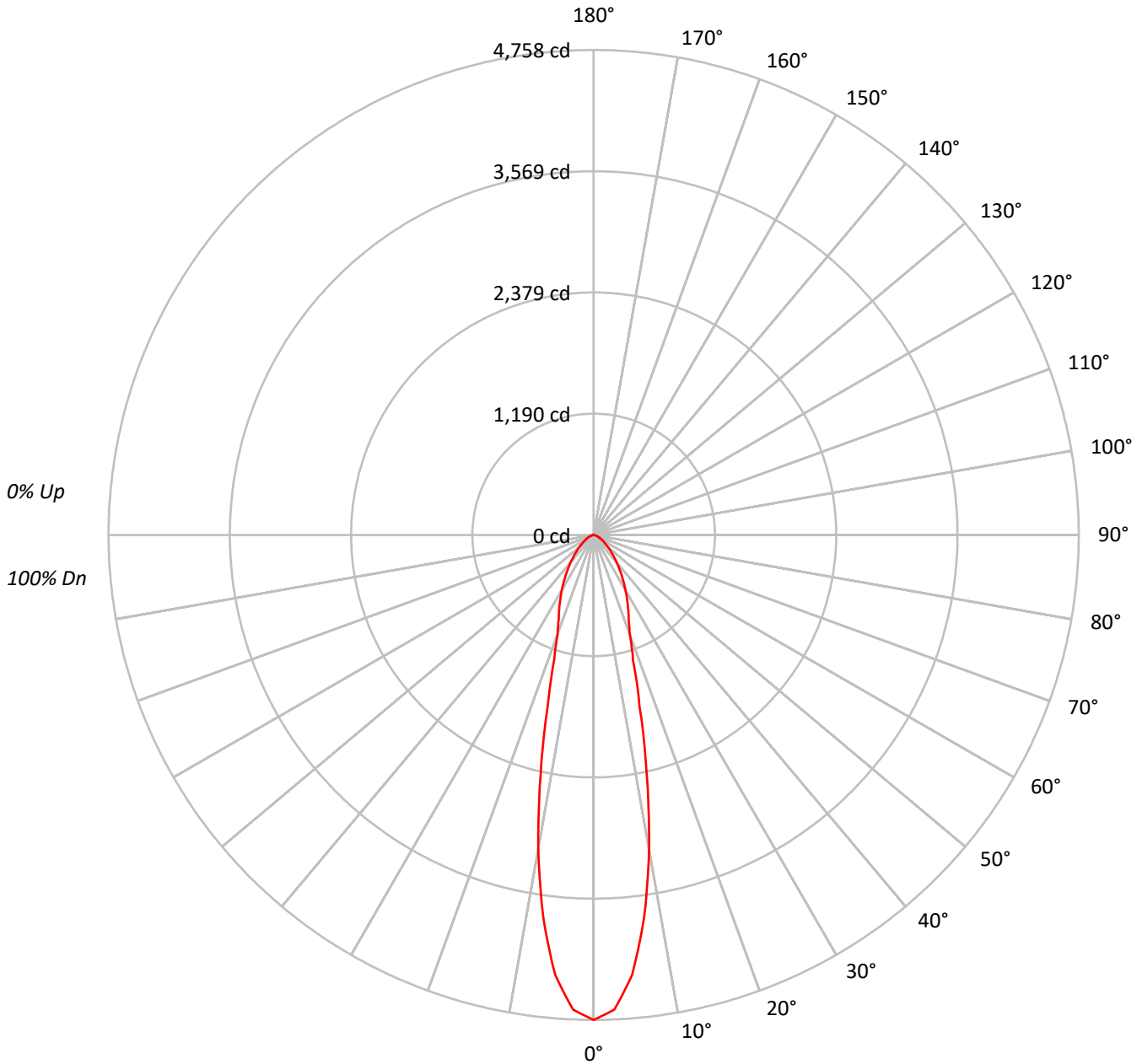
Lumens per Lamp: N/A  
Luminaire Lumens: 1932.0 lumens  
Efficiency: N/A  
Efficacy: 113.0 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.43  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 17.1  
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	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93				93															
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85				85															
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79				79															
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	75	73				73															
5	91	82	76	72	89	81	76	71	80	75	71	78	74	70	76	73	70	68				68															
6	87	77	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64				64															
7	83	73	67	63	81	72	67	63	71	66	62	70	65	62	69	65	61	60				60															
8	79	69	63	59	78	69	63	59	68	62	59	67	62	58	66	61	58	57				57															
9	75	66	60	56	74	65	60	56	64	59	56	63	59	55	63	58	55	54				54															
10	72	63	57	53	71	62	57	53	62	56	53	61	56	53	60	56	53	51				51															

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

	0°
0°	260834
5°	238383
10°	174112
15°	98741
20°	60240
25°	48342
30°	39398
35°	31594
40°	25054
45°	19599
50°	15232
55°	11995
60°	9495
65°	7796
70°	5674
75°	3368
80°	1673
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19599 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	374.2	19.4
10°-20°	501.1	25.9
20°-30°	368.8	19.1
30°-40°	296.8	15.4
40°-50°	197.3	10.2
50°-60°	114.2	5.9
60°-70°	60.0	3.1
70°-80°	17.9	0.9
80°-90°	1.7	0.1
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°	1244.2	64.4
0°-40°	1541.0	79.8
0°-60°	1852.5	95.9
0°-90°	1932.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1932.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4758	
5°	4332	374
15°	1740	501
25°	799	369
35°	472	297
45°	253	197
55°	126	114
65°	60	60
75°	16	18
85°	0	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4758.0
2.5°	4662.5
5°	4331.9
7.5°	3789.1
10°	3127.8
12.5°	2404.6
15°	1739.8
17.5°	1285.4
20°	1032.6
22.5°	898.2
25°	799.2
27.5°	709.0
30°	622.4
32.5°	544.6
35°	472.1
37.5°	408.4
40°	350.1
42.5°	297.0
45°	252.8
47.5°	213.9
50°	178.6
52.5°	150.3
55°	125.5
57.5°	104.3
60°	86.6
62.5°	72.5
65°	60.1
67.5°	49.5
70°	35.4
72.5°	23.0
75°	15.9
77.5°	8.8
80°	5.3
82.5°	3.5
85°	0.0
87.5°	0.0
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)