

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: P642737

Luminaire Tested: ML5615LSNFL259FS1E - 592SC - 1500LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642737  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSNFL259FS1E - 592SC - 1500LM - 3000K  
Description: ML56 RR, 25D TIR OPTIC, 5" SPECULAR CLEAR TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1701.7 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.48  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

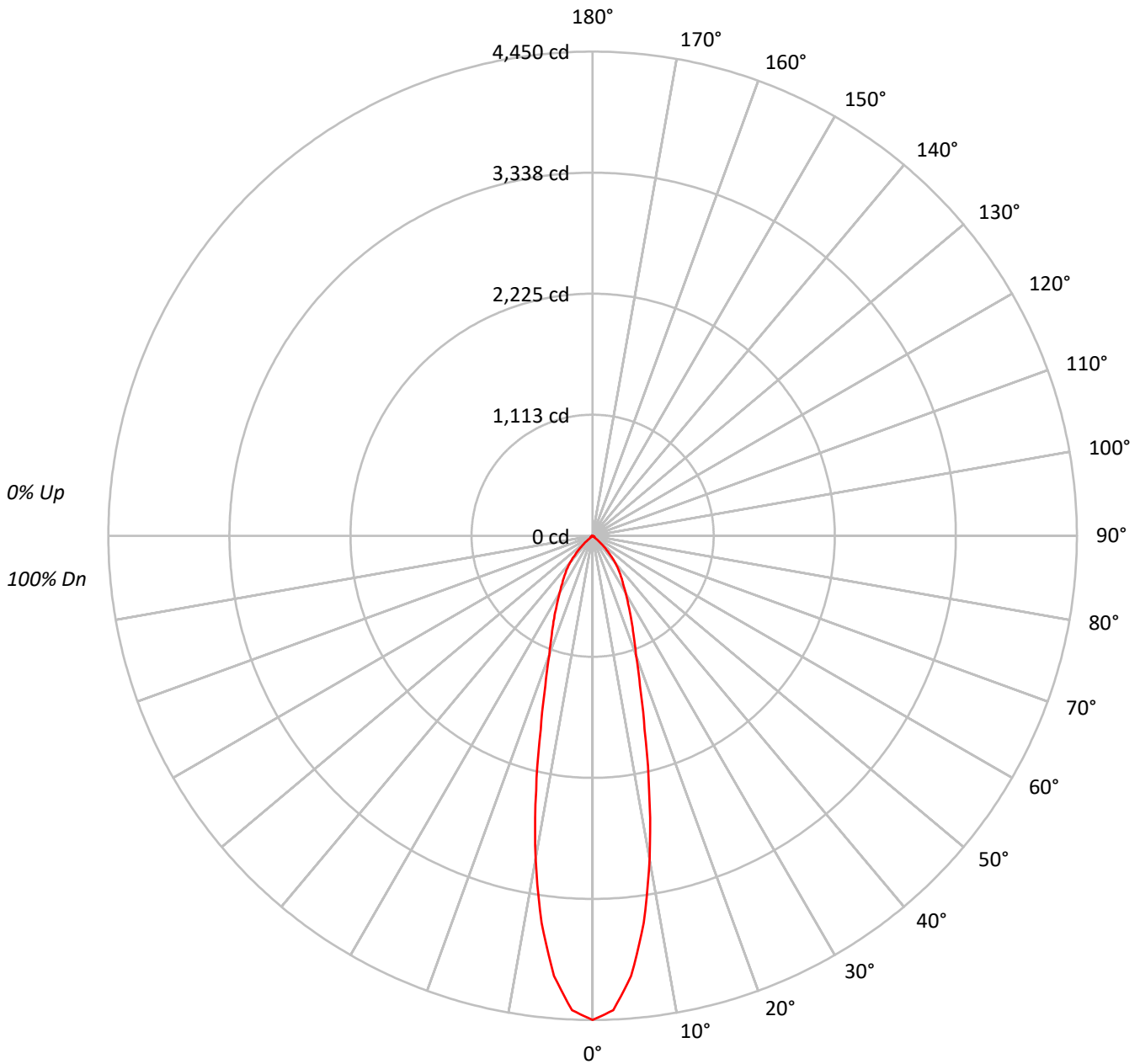
Input Watts (W): 17.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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

RF	20					20					20					20					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	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	100	100	100	100		
	1	114	111	109	107	112	109	107	105	105	104	102	101	100	99	98	97	96	94	94	94	94	94	94		
	2	109	104	101	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89	89	87	85	83	83		
	3	104	98	93	90	102	97	92	89	94	91	88	92	89	86	89	87	85	83	83	81	80	79	79		
	4	99	92	87	83	97	91	86	83	89	85	82	87	84	81	85	82	80	79	79	78	76	74	74		
	5	95	87	82	78	93	86	81	78	85	80	77	83	79	76	81	78	76	74	74	73	71	70	70		
	6	91	83	77	73	89	82	77	73	80	76	72	79	75	72	78	74	71	70	70	69	67	67	67		
	7	87	78	73	69	86	78	73	69	77	72	69	75	71	68	74	71	68	67	67	66	64	63	63		
	8	83	75	69	65	82	74	69	65	73	68	65	72	68	65	71	67	64	63	63	62	61	60	60		
	9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	64	61	60	60	59	58	58	58		
	10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	65	62	59	58	58	57	56	55	55		

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

	0°
0°	351295
5°	321819
10°	241783
15°	150522
20°	97591
25°	72895
30°	55139
35°	43636
40°	33306
45°	19291
50°	5109
55°	2202
60°	1516
65°	598
70°	369
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19291 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	353.8	20.8
10°-20°	523.8	30.8
20°-30°	386.7	22.7
30°-40°	283.6	16.7
40°-50°	132.0	7.8
50°-60°	17.3	1.0
60°-70°	4.1	0.2
70°-80°	0.2	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°	1264.3	74.3
0°-40°	1548.0	91.0
0°-60°	1697.4	99.7
0°-90°	1701.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1701.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4450	
5°	4061	354
15°	1842	524
25°	837	387
35°	453	284
45°	173	132
55°	16	17
65°	3	4
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4450.1
2.5°	4363.7
5°	4061.2
7.5°	3589.2
10°	3016.3
12.5°	2400.3
15°	1841.8
17.5°	1443.4
20°	1161.7
22.5°	979.3
25°	836.9
27.5°	707.3
30°	604.9
32.5°	520.1
35°	452.8
37.5°	390.4
40°	323.2
42.5°	244.8
45°	172.8
47.5°	97.6
50°	41.6
52.5°	24.0
55°	16.0
57.5°	12.8
60°	9.6
62.5°	6.4
65°	3.2
67.5°	1.6
70°	1.6
72.5°	0.0
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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(END OF REPORT)