

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: P642815

Luminaire Tested: ML5615LSNFL259FS1E - 593WB - 1500LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642815  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSNFL259FS1E - 593WB - 1500LM - 5000K  
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

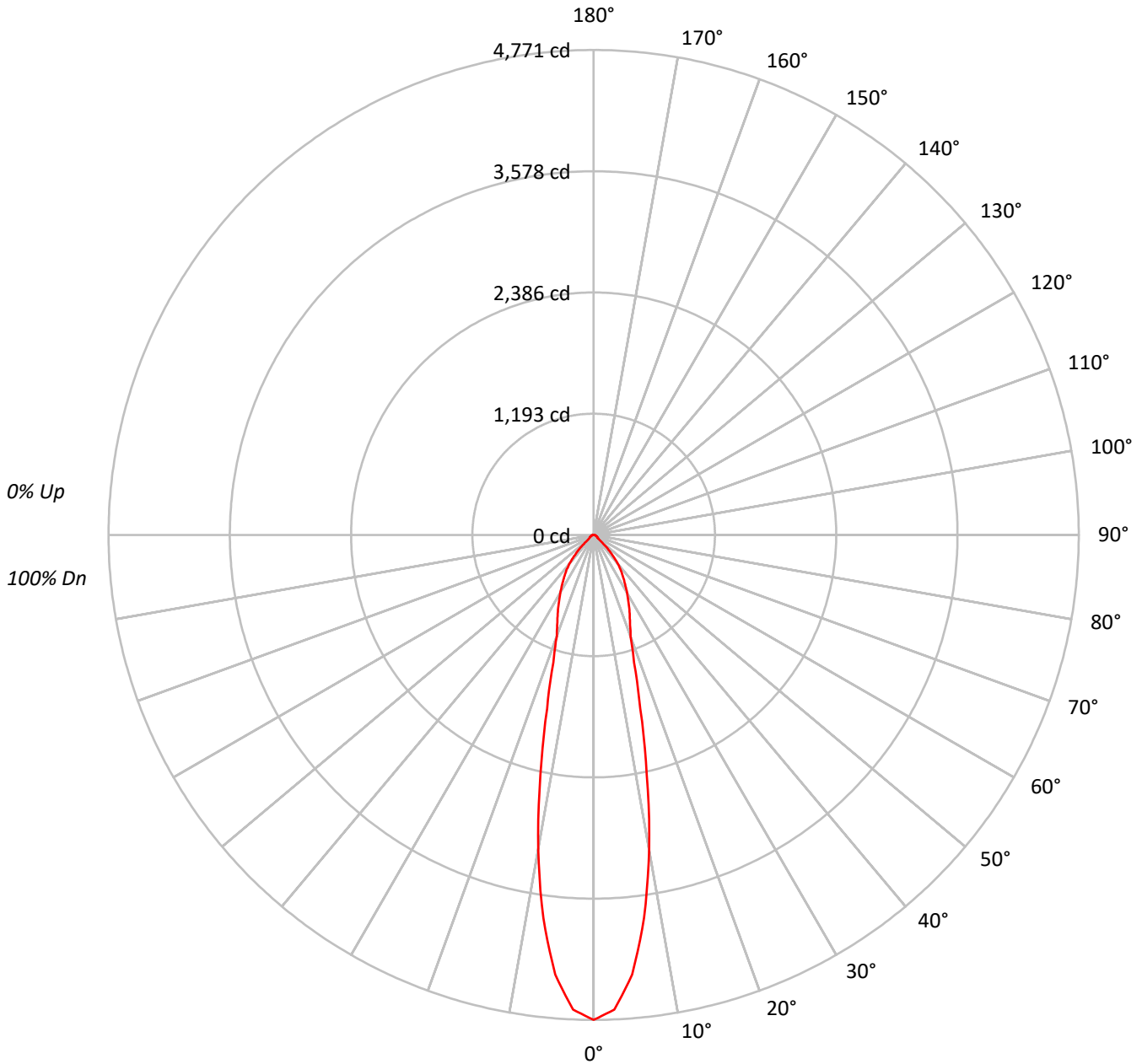
Lumens per Lamp: N/A  
Luminaire Lumens: 1846.2 lumens  
Efficiency: N/A  
Efficacy: 108.0 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86	86	86	86
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81	81	81	81
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	80	77	75	75	75	75
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71	71	71	71
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67	67	67	67
7	85	76	70	66	83	75	69	66	74	69	65	72	68	65	71	67	64	63	63	63	63
8	81	72	66	62	80	71	66	62	70	65	62	69	65	61	68	64	61	60	60	60	60
9	78	68	63	59	77	68	62	59	67	62	59	66	62	58	65	61	58	57	57	57	57
10	74	65	60	56	74	65	60	56	64	59	56	63	59	56	63	58	56	54	54	54	54

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

	0°
0°	376596
5°	344095
10°	252051
15°	144614
20°	89190
25°	72591
30°	59678
35°	48599
40°	38293
45°	23511
50°	8695
55°	6579
60°	6142
65°	5622
70°	5724
75°	5948
80°	5637
85°	6431

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 23511 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	375.3	20.3
10°-20°	508.4	27.5
20°-30°	383.7	20.8
30°-40°	315.9	17.1
40°-50°	160.9	8.7
50°-60°	45.0	2.4
60°-70°	30.6	1.7
70°-80°	19.8	1.1
80°-90°	6.5	0.4
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°	1267.4	68.6
0°-40°	1583.3	85.8
0°-60°	1789.2	96.9
0°-90°	1846.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1846.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4771	
5°	4342	375
15°	1770	508
25°	833	384
35°	504	316
45°	211	161
55°	48	45
65°	30	31
75°	20	20
85°	7	7
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4770.6
2.5°	4673.2
5°	4342.3
7.5°	3799.1
10°	3144.4
12.5°	2417.1
15°	1769.5
17.5°	1318.3
20°	1061.7
22.5°	930.8
25°	833.4
27.5°	739.6
30°	654.7
32.5°	575.1
35°	504.3
37.5°	440.6
40°	371.6
42.5°	286.7
45°	210.6
47.5°	129.2
50°	70.8
52.5°	54.9
55°	47.8
57.5°	44.2
60°	38.9
62.5°	35.4
65°	30.1
67.5°	26.5
70°	24.8
72.5°	21.2
75°	19.5
77.5°	15.9
80°	12.4
82.5°	8.8
85°	7.1
87.5°	1.8
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)