

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: P642807

Luminaire Tested: ML5615LSNFL259FS1E - 593WB - 1200LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642807  
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 - 1200LM - 3000K  
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

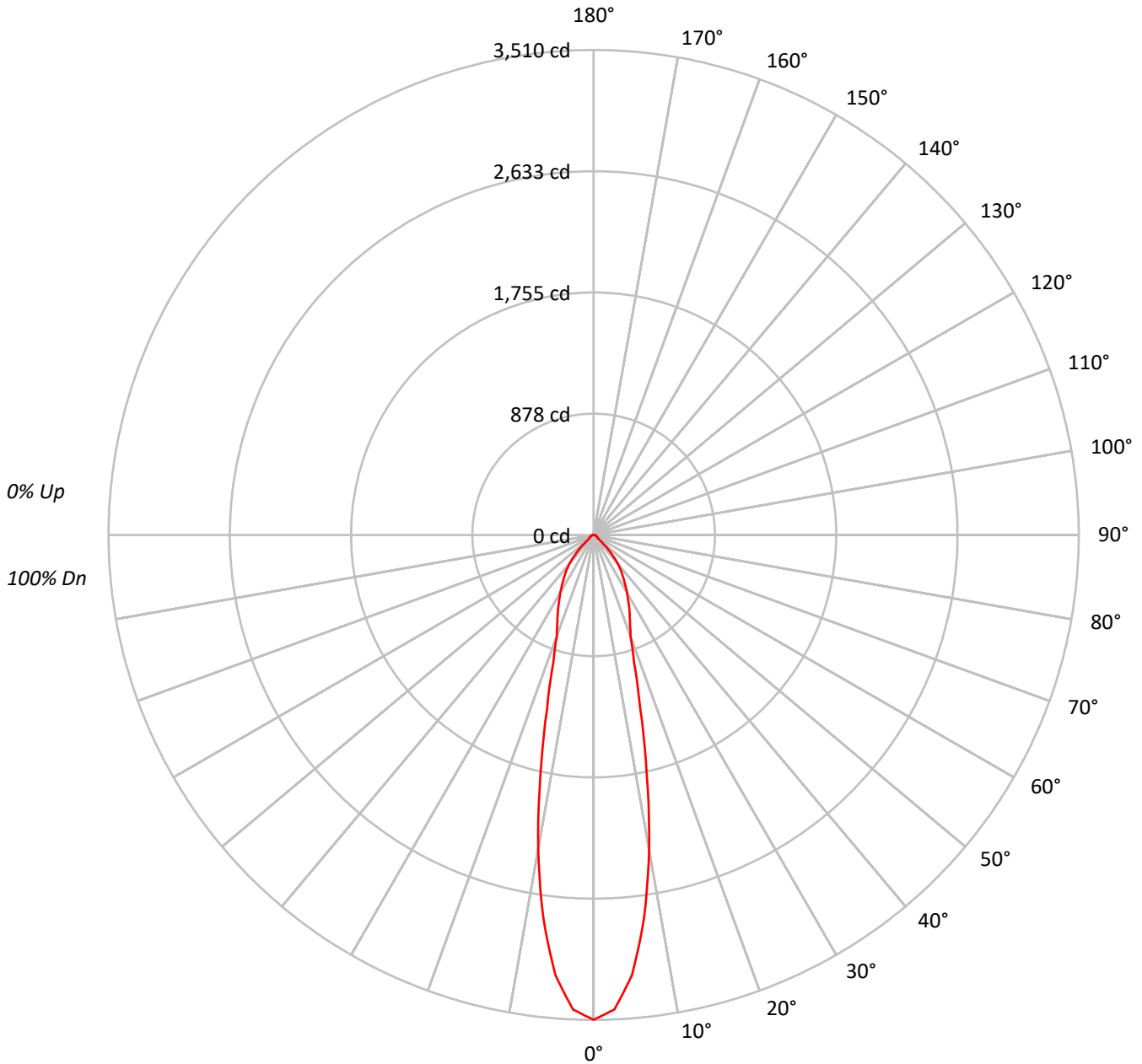
Lumens per Lamp: N/A  
Luminaire Lumens: 1358.1 lumens  
Efficiency: N/A  
Efficacy: 101.3 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

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	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	80	77	75			75
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71			71
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67			67
7	85	76	70	66	83	75	69	66	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	77	68	62	59	67	62	59	66	62	58	65	61	58	57			57
10	74	65	60	56	74	65	60	56	64	59	56	63	59	56	63	58	56	54			54

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

	0°
0°	277043
5°	253140
10°	185423
15°	106382
20°	65610
25°	53402
30°	43899
35°	35753
40°	28174
45°	17293
50°	6398
55°	4831
60°	4515
65°	4128
70°	4201
75°	4362
80°	4137
85°	4710

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17293 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.1	20.3
10°-20°	374.0	27.5
20°-30°	282.2	20.8
30°-40°	232.4	17.1
40°-50°	118.3	8.7
50°-60°	33.1	2.4
60°-70°	22.5	1.7
70°-80°	14.6	1.1
80°-90°	4.8	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°	932.3	68.7
0°-40°	1164.7	85.8
0°-60°	1316.2	96.9
0°-90°	1358.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1358.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3510	
5°	3194	276
15°	1302	374
25°	613	282
35°	371	232
45°	155	118
55°	35	33
65°	22	23
75°	14	15
85°	5	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3509.5
2.5°	3437.9
5°	3194.5
7.5°	2794.8
10°	2313.2
12.5°	1778.2
15°	1301.7
17.5°	969.8
20°	781.0
22.5°	684.7
25°	613.1
27.5°	544.1
30°	481.6
32.5°	423.1
35°	371.0
37.5°	324.1
40°	273.4
42.5°	210.9
45°	154.9
47.5°	95.0
50°	52.1
52.5°	40.4
55°	35.1
57.5°	32.5
60°	28.6
62.5°	26.0
65°	22.1
67.5°	19.5
70°	18.2
72.5°	15.6
75°	14.3
77.5°	11.7
80°	9.1
82.5°	6.5
85°	5.2
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)