

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: P642817

Luminaire Tested: ML5615LSNFL259FS1E - 593WB - 900LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642817  
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 - 900LM - 3000K  
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

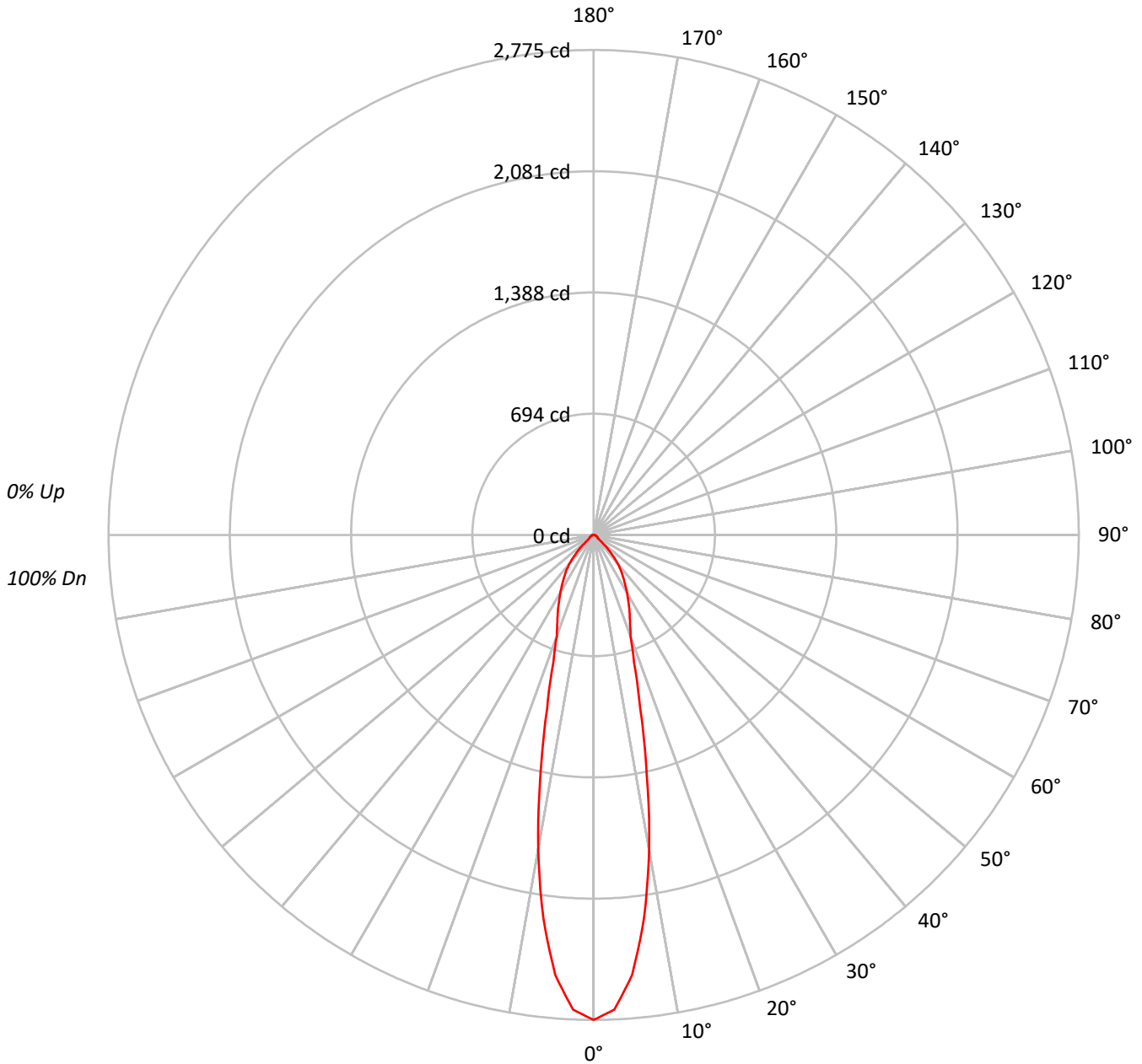
Lumens per Lamp: N/A  
Luminaire Lumens: 1073.8 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 10.5  
Input Voltage (V): NR  
Input Current (Ain): 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																			
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93																			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86																			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81																			
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	80	77	75																			
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71																			
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67																			
7	85	76	70	66	83	75	69	66	74	69	65	72	68	65	71	67	64	63																			
8	81	72	66	62	80	71	66	62	70	65	62	69	65	61	68	64	61	60																			
9	78	68	63	59	77	68	62	59	67	62	59	66	62	58	65	61	58	57																			
10	74	65	60	56	74	65	60	56	64	59	56	63	59	56	63	58	56	54																			

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

	0°
0°	219045
5°	200151
10°	146610
15°	84112
20°	51874
25°	42227
30°	34711
35°	28265
40°	22269
45°	13676
50°	5060
55°	3826
60°	3568
65°	3269
70°	3324
75°	3447
80°	3273
85°	3714

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13676 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.3	20.3
10°-20°	295.7	27.5
20°-30°	223.2	20.8
30°-40°	183.7	17.1
40°-50°	93.6	8.7
50°-60°	26.2	2.4
60°-70°	17.8	1.7
70°-80°	11.6	1.1
80°-90°	3.8	0.3
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°	737.2	68.7
0°-40°	920.9	85.8
0°-60°	1040.7	96.9
0°-90°	1073.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1073.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2775	
5°	2526	218
15°	1029	296
25°	485	223
35°	293	184
45°	122	94
55°	28	26
65°	18	18
75°	11	12
85°	4	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2774.8
2.5°	2718.2
5°	2525.8
7.5°	2209.8
10°	1829.0
12.5°	1405.9
15°	1029.2
17.5°	766.8
20°	617.5
22.5°	541.4
25°	484.8
27.5°	430.2
30°	380.8
32.5°	334.5
35°	293.3
37.5°	256.3
40°	216.1
42.5°	166.7
45°	122.5
47.5°	75.1
50°	41.2
52.5°	31.9
55°	27.8
57.5°	25.7
60°	22.6
62.5°	20.6
65°	17.5
67.5°	15.4
70°	14.4
72.5°	12.4
75°	11.3
77.5°	9.3
80°	7.2
82.5°	5.1
85°	4.1
87.5°	1.0
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)