

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: P643559

Luminaire Tested: ML5615LSVWFL9FS1E - 596WB - 1200LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643559  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-104)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL9FS1E - 596WB - 1200LM - 4000K  
Description: ML56 RR, MILKY OPTIC, 5" SHALLOW WHITE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

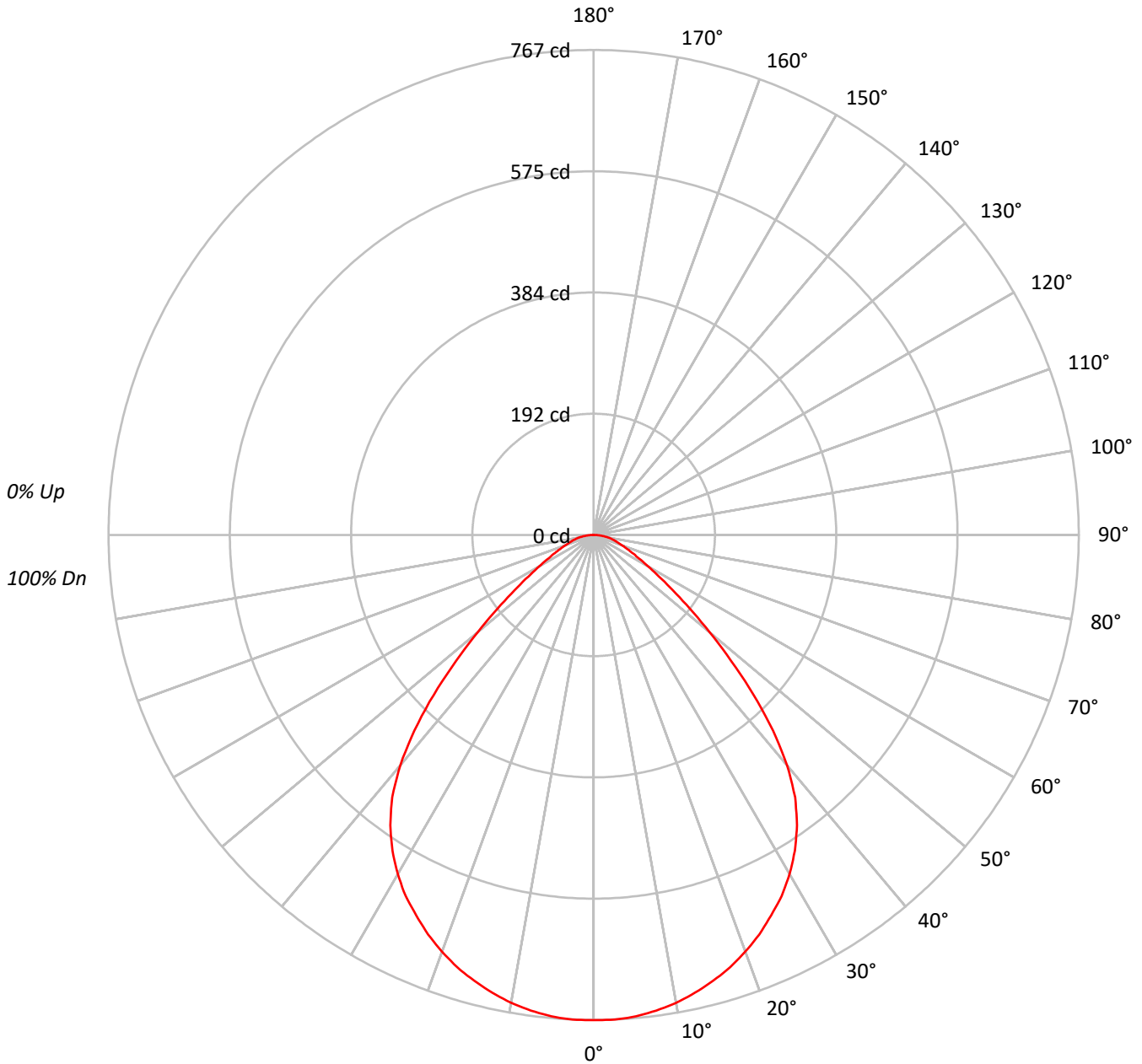
Lumens per Lamp: N/A  
Luminaire Lumens: 1463.7 lumens  
Efficiency: N/A  
Efficacy: 109.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.24  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 13.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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	111	107	104	101	109	105	102	99	101	98	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78																			
3	96	87	80	75	93	85	79	74	83	77	73	80	76	72	78	74	71	69																			
4	89	79	71	66	87	77	71	65	75	69	64	73	68	64	71	66	63	61																			
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54																			
6	77	65	58	52	75	64	57	52	63	56	51	61	55	51	60	55	51	49																			
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44																			
8	67	55	48	42	66	55	47	42	53	47	42	52	46	42	51	46	42	40																			
9	63	51	44	39	62	50	43	39	49	43	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33																			

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

	0°
0°	60579
5°	60581
10°	60247
15°	59660
20°	58914
25°	57827
30°	56460
35°	54015
40°	49021
45°	39945
50°	29303
55°	20961
60°	15662
65°	12608
70°	10940
75°	10523
80°	10456
85°	9148

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 39945 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.5	5.0
10°-20°	205.9	14.1
20°-30°	305.8	20.9
30°-40°	347.4	23.7
40°-50°	274.1	18.7
50°-60°	141.1	9.6
60°-70°	68.5	4.7
70°-80°	36.6	2.5
80°-90°	11.7	0.8
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°	584.2	39.9
0°-40°	931.6	63.7
0°-60°	1346.9	92.0
0°-90°	1463.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1463.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	767	
5°	764	73
15°	730	206
25°	664	306
35°	560	347
45°	358	274
55°	152	141
65°	68	68
75°	34	37
85°	10	12
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	767.4
2.5°	767.4
5°	764.5
7.5°	758.8
10°	751.6
12.5°	741.5
15°	730.0
17.5°	717.1
20°	701.3
22.5°	684.0
25°	663.9
27.5°	643.8
30°	619.4
32.5°	592.1
35°	560.5
37.5°	523.1
40°	475.7
42.5°	419.6
45°	357.8
47.5°	294.6
50°	238.6
52.5°	191.1
55°	152.3
57.5°	122.2
60°	99.2
62.5°	80.5
65°	67.5
67.5°	56.0
70°	47.4
72.5°	40.2
75°	34.5
77.5°	28.7
80°	23.0
82.5°	17.2
85°	10.1
87.5°	4.3
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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Scaled Data Report



(END OF REPORT)