

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: P643444

Luminaire Tested: ML5615LSVWFL9FS1E - 592W - 1500LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643444  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-96)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL9FS1E - 592W - 1500LM - 4000K  
Description: ML56 RR, MILKY OPTIC, 5" WHITE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1723.4 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

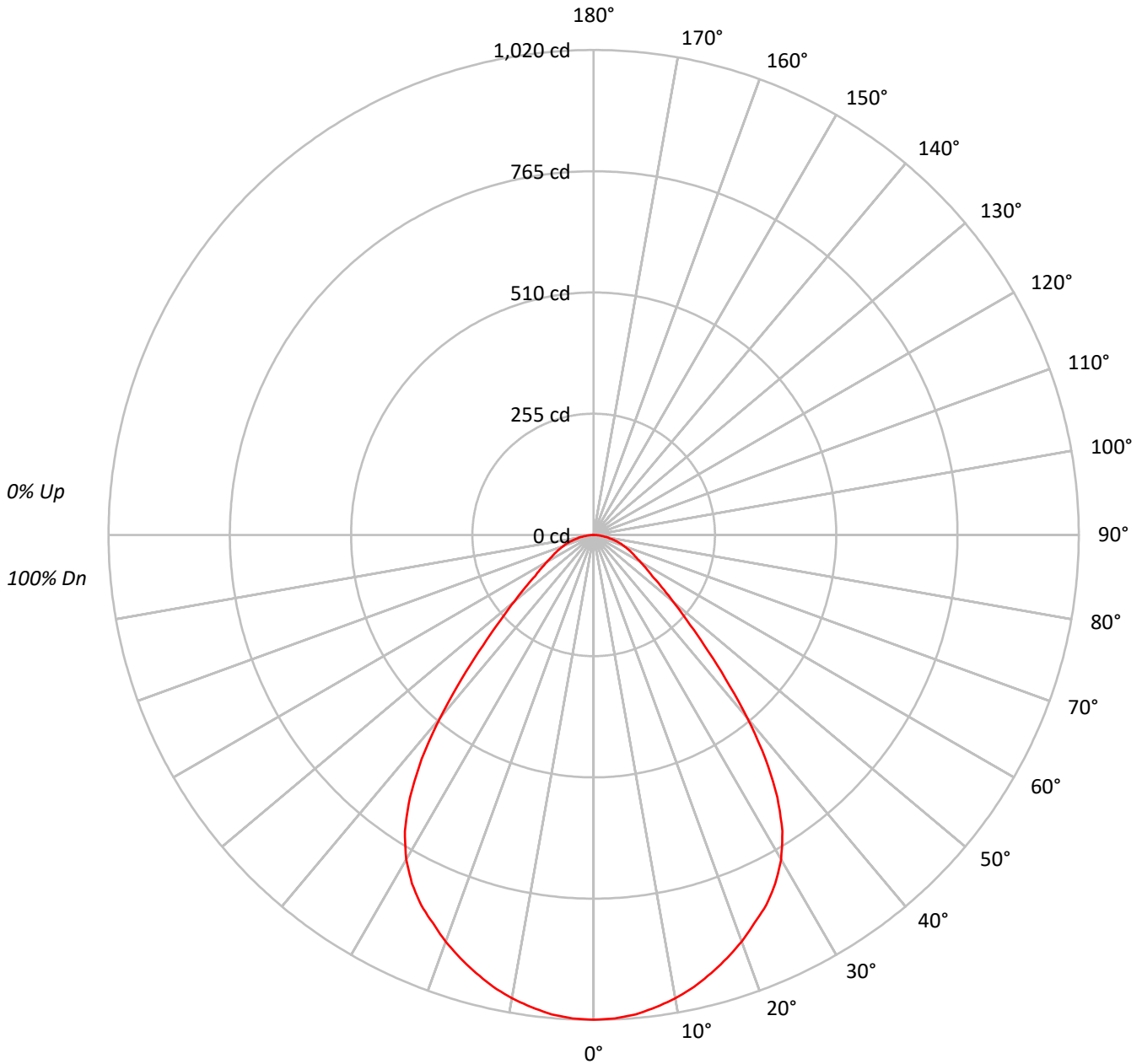
Input Watts (W): 17.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
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	99	96	97	95	93	94	92	91	89																			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78																			
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	70																			
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62																			
5	84	73	65	60	82	72	65	59	70	64	59	68	62	58	66	61	58	56																			
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50																			
7	73	61	54	49	72	61	54	48	59	53	48	58	52	48	57	52	48	46																			
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	44	42																			
9	65	53	45	41	63	52	45	41	51	45	40	50	44	40	49	44	40	38																			
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35																			

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

	0°
0°	55900
5°	55723
10°	55087
15°	54160
20°	53094
25°	51953
30°	49894
35°	45059
40°	35917
45°	25483
50°	18541
55°	14356
60°	12400
65°	11467
70°	10771
75°	10103
80°	8934
85°	6667

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 25483 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.9	5.6
10°-20°	268.9	15.6
20°-30°	394.0	22.9
30°-40°	412.8	24.0
40°-50°	260.9	15.1
50°-60°	139.7	8.1
60°-70°	87.9	5.1
70°-80°	50.3	2.9
80°-90°	13.0	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°	758.8	44.0
0°-40°	1171.6	68.0
0°-60°	1572.2	91.2
0°-90°	1723.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1723.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1020	
5°	1013	96
15°	954	269
25°	859	394
35°	673	413
45°	329	261
55°	150	140
65°	88	88
75°	48	50
85°	11	13
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1019.7
2.5°	1017.9
5°	1012.6
7.5°	1002.0
10°	989.6
12.5°	973.7
15°	954.3
17.5°	933.1
20°	910.1
22.5°	883.6
25°	858.9
27.5°	827.0
30°	788.2
32.5°	738.7
35°	673.3
37.5°	593.8
40°	501.9
42.5°	410.0
45°	328.7
47.5°	265.1
50°	217.4
52.5°	180.3
55°	150.2
57.5°	130.8
60°	113.1
62.5°	99.0
65°	88.4
67.5°	77.8
70°	67.2
72.5°	58.3
75°	47.7
77.5°	37.1
80°	28.3
82.5°	19.4
85°	10.6
87.5°	3.5
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)