

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: P643624

Luminaire Tested: ML5615LSVWFL9FS1E - 692W - 1500LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643624  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-108)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL9FS1E - 692W - 1500LM - 4000K  
Description: ML56 RR, MILKY OPTIC, 6" WHITE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

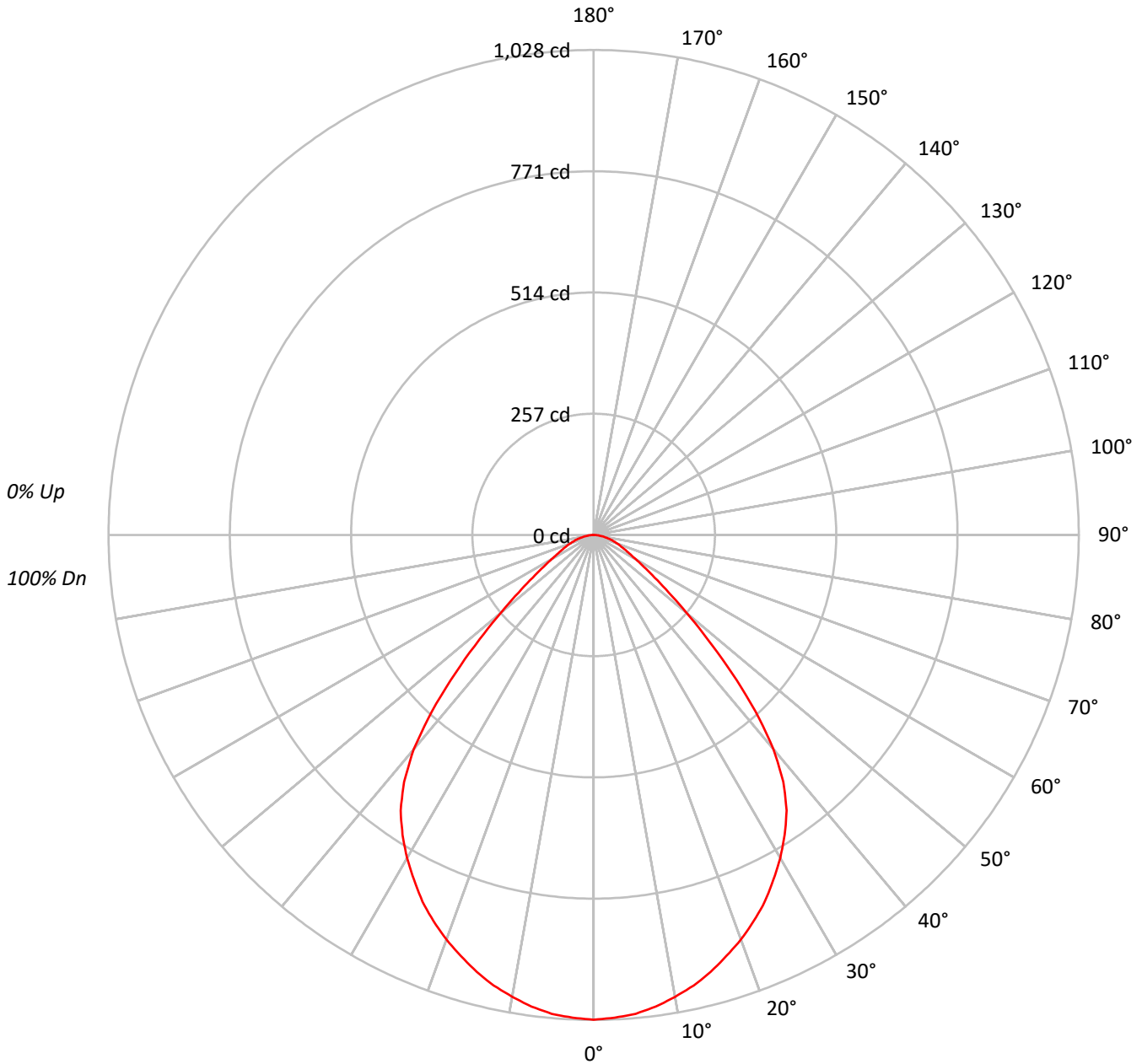
Lumens per Lamp: N/A  
Luminaire Lumens: 1790.6 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 17.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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			100																
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89			89																
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79			79																
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70			70																
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63			63																
5	84	73	65	60	82	72	65	60	70	64	59	68	63	58	66	62	58	56			56																
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	50			50																
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	47	46			46																
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42			42																
9	64	52	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38			38																
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35			35																

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

	0°
0°	56344
5°	56075
10°	55343
15°	54416
20°	53251
25°	51898
30°	50052
35°	47709
40°	42408
45°	32089
50°	21876
55°	15044
60°	11249
65°	9404
70°	8511
75°	7858
80°	6693
85°	5535

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 32089 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.5	5.4
10°-20°	270.0	15.1
20°-30°	394.1	22.0
30°-40°	440.2	24.6
40°-50°	320.3	17.9
50°-60°	147.3	8.2
60°-70°	73.4	4.1
70°-80°	38.7	2.2
80°-90°	10.1	0.6
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°	760.6	42.5
0°-40°	1200.8	67.1
0°-60°	1668.4	93.2
0°-90°	1790.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1790.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1028	
5°	1019	96
15°	959	270
25°	858	394
35°	713	440
45°	414	320
55°	157	147
65°	72	73
75°	37	39
85°	9	10
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1027.8
2.5°	1024.3
5°	1019.0
7.5°	1008.3
10°	994.2
12.5°	978.3
15°	958.8
17.5°	935.8
20°	912.8
22.5°	886.3
25°	858.0
27.5°	824.4
30°	790.7
32.5°	753.6
35°	712.9
37.5°	659.8
40°	592.6
42.5°	507.7
45°	413.9
47.5°	327.3
50°	256.5
52.5°	199.9
55°	157.4
57.5°	125.6
60°	102.6
62.5°	84.9
65°	72.5
67.5°	61.9
70°	53.1
72.5°	44.2
75°	37.1
77.5°	28.3
80°	21.2
82.5°	14.2
85°	8.8
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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Scaled Data Report



(END OF REPORT)