

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: P643573

Luminaire Tested: ML5615LSVWFL9FS1E - 691WB - 1200LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643573  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-105)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL9FS1E - 691WB - 1200LM - 3500K  
Description: ML56 RR, MILKY OPTIC, 6" DEADFRONT TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

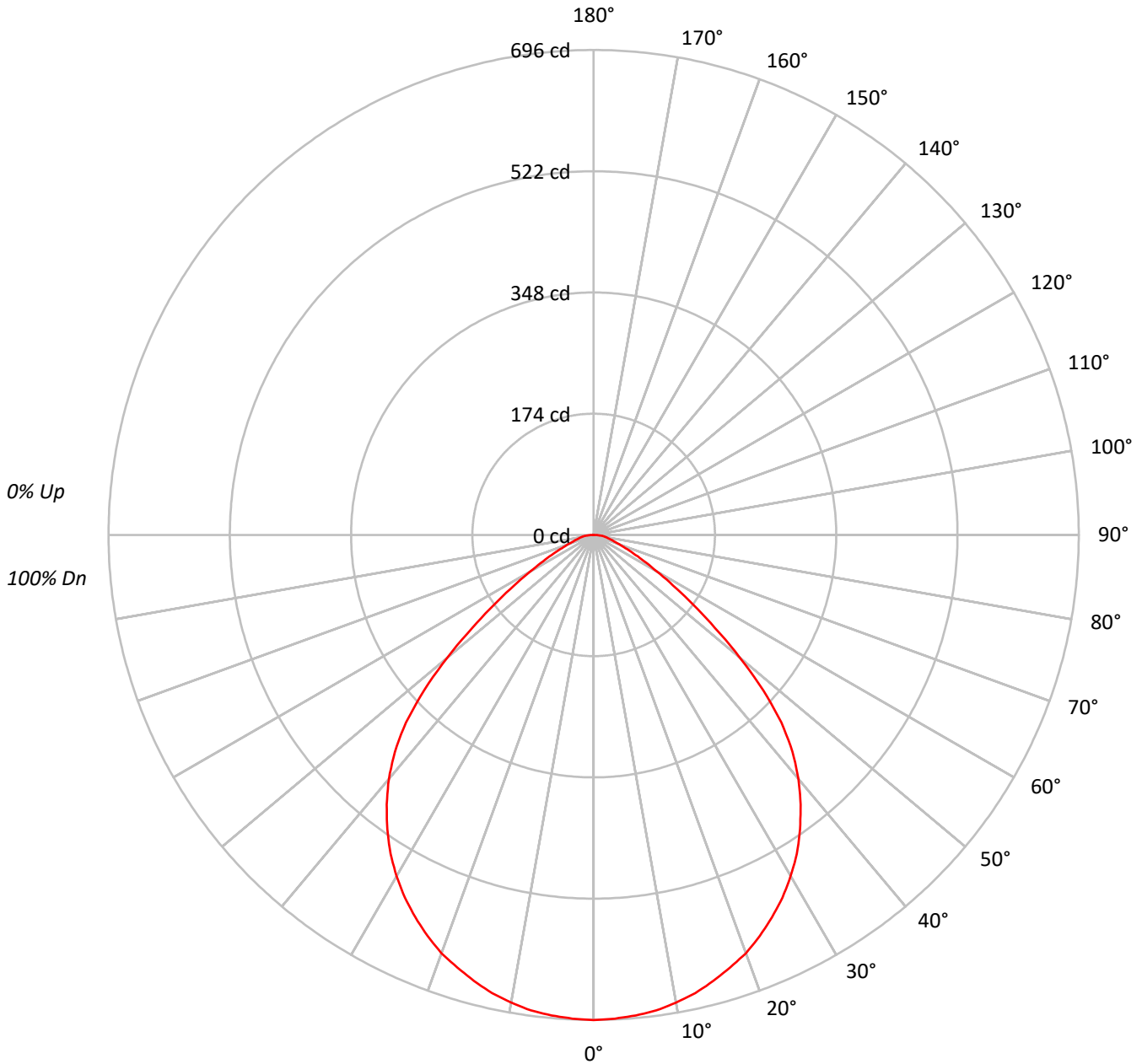
Lumens per Lamp: N/A  
Luminaire Lumens: 1404.5 lumens  
Efficiency: N/A  
Efficacy: 104.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.28  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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									
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	108	105	102	99	101	98	96	97	95	93	94	92	90	89																			
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	80	78																			
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68																			
4	88	78	71	65	86	77	70	64	75	68	64	72	67	63	70	66	62	60																			
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53																			
6	76	65	57	51	75	64	56	51	62	55	50	60	54	50	59	54	50	48																			
7	71	59	51	46	70	58	51	46	57	50	45	55	49	45	54	49	45	43																			
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39																			
9	62	50	43	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35																			
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32																			

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

	0°
0°	38171
5°	38097
10°	37942
15°	37622
20°	37267
25°	36619
30°	35784
35°	34526
40°	32711
45°	29530
50°	23368
55°	16602
60°	11425
65°	8146
70°	6219
75°	5380
80°	5493
85°	5913

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 29530 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.8	4.7
10°-20°	187.0	13.3
20°-30°	278.7	19.8
30°-40°	321.8	22.9
40°-50°	288.3	20.5
50°-60°	159.4	11.3
60°-70°	65.4	4.7
70°-80°	27.8	2.0
80°-90°	10.4	0.7
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°	531.4	37.8
0°-40°	853.2	60.8
0°-60°	1300.9	92.6
0°-90°	1404.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1404.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	696	
5°	692	66
15°	663	187
25°	605	279
35°	516	322
45°	381	288
55°	174	159
65°	63	65
75°	25	28
85°	9	10
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	696.3
2.5°	694.9
5°	692.3
7.5°	688.3
10°	681.6
12.5°	673.6
15°	662.9
17.5°	650.8
20°	638.8
22.5°	622.8
25°	605.4
27.5°	586.7
30°	565.3
32.5°	542.6
35°	515.9
37.5°	487.8
40°	457.1
42.5°	422.3
45°	380.9
47.5°	330.1
50°	274.0
52.5°	219.2
55°	173.7
57.5°	135.0
60°	104.2
62.5°	81.5
65°	62.8
67.5°	49.4
70°	38.8
72.5°	30.7
75°	25.4
77.5°	21.4
80°	17.4
82.5°	14.7
85°	9.4
87.5°	5.3
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)