

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: P641756

Luminaire Tested: ML5612LSVWFL97FS1E - 691WB - 1200LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641756  
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: ML5612LSVWFL97FS1E - 691WB - 1200LM - 2700K  
Description: ML56 RR, MILKY OPTIC, 6" DEADFRONT TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

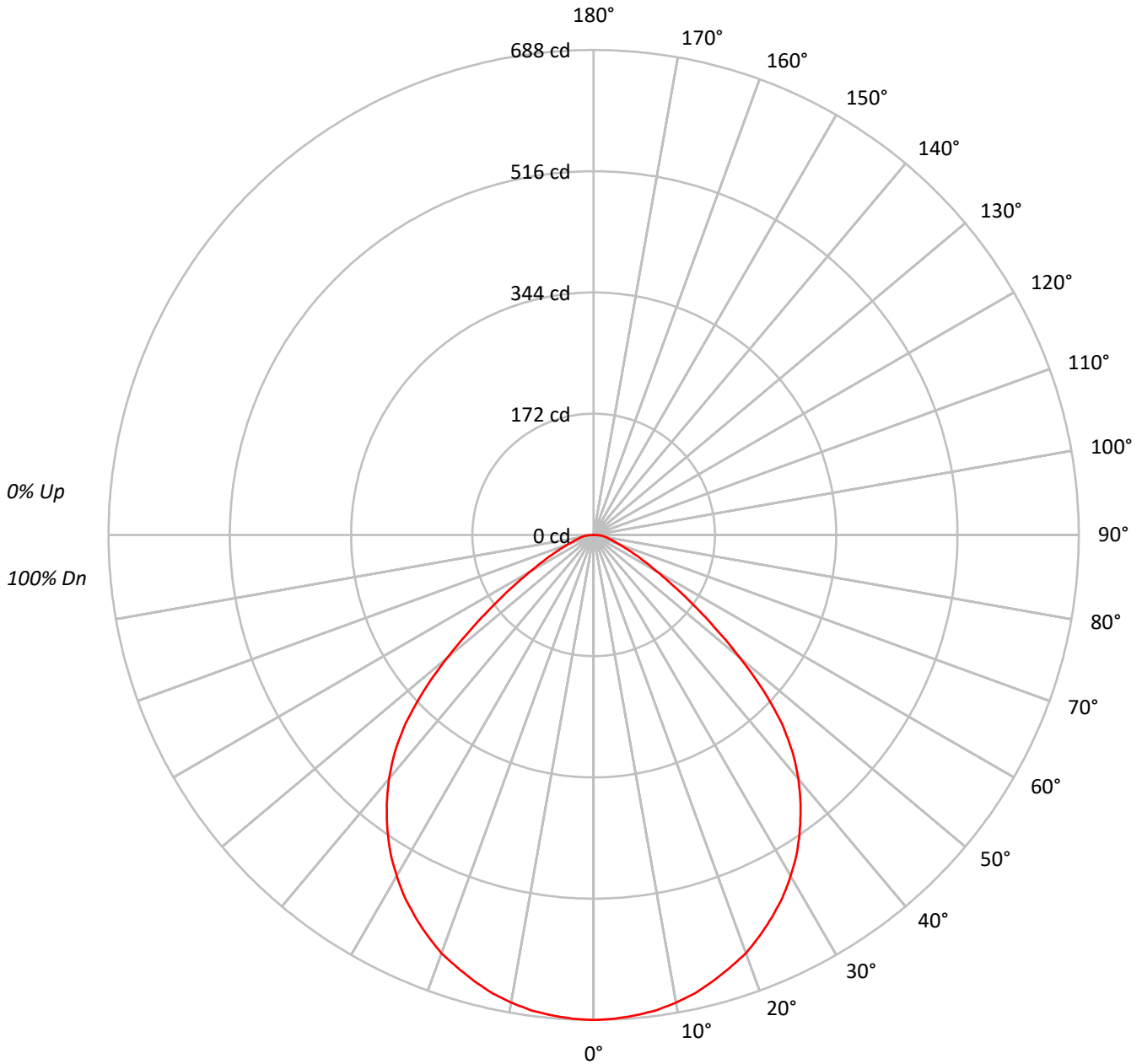
Lumens per Lamp: N/A  
Luminaire Lumens: 1388.1 lumens  
Efficiency: N/A  
Efficacy: 84.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.28  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 16.5  
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°	37727
5°	37651
10°	37497
15°	37180
20°	36835
25°	36196
30°	35366
35°	34124
40°	32325
45°	29181
50°	23095
55°	16410
60°	11293
65°	8055
70°	6139
75°	5316
80°	5430
85°	5787

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 29181 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.0	4.7
10°-20°	184.8	13.3
20°-30°	275.5	19.8
30°-40°	318.0	22.9
40°-50°	284.9	20.5
50°-60°	157.5	11.3
60°-70°	64.7	4.7
70°-80°	27.5	2.0
80°-90°	10.2	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°	525.2	37.8
0°-40°	843.3	60.8
0°-60°	1285.7	92.6
0°-90°	1388.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1388.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	688	
5°	684	65
15°	655	185
25°	598	275
35°	510	318
45°	376	285
55°	172	157
65°	62	65
75°	25	28
85°	9	10
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	688.2
2.5°	686.9
5°	684.2
7.5°	680.2
10°	673.6
12.5°	665.7
15°	655.1
17.5°	643.3
20°	631.4
22.5°	615.5
25°	598.4
27.5°	579.9
30°	558.7
32.5°	536.3
35°	509.9
37.5°	482.1
40°	451.7
42.5°	417.4
45°	376.4
47.5°	326.3
50°	270.8
52.5°	216.6
55°	171.7
57.5°	133.4
60°	103.0
62.5°	80.6
65°	62.1
67.5°	48.9
70°	38.3
72.5°	30.4
75°	25.1
77.5°	21.1
80°	17.2
82.5°	14.5
85°	9.2
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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(END OF REPORT)