

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: P641864

Luminaire Tested: ML5612LSVWFL97FS1E - 693WB - 1200LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641864  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-109)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL97FS1E - 693WB - 1200LM - 4000K  
Description: ML56 RR, MILKY OPTIC, 6" WHITE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

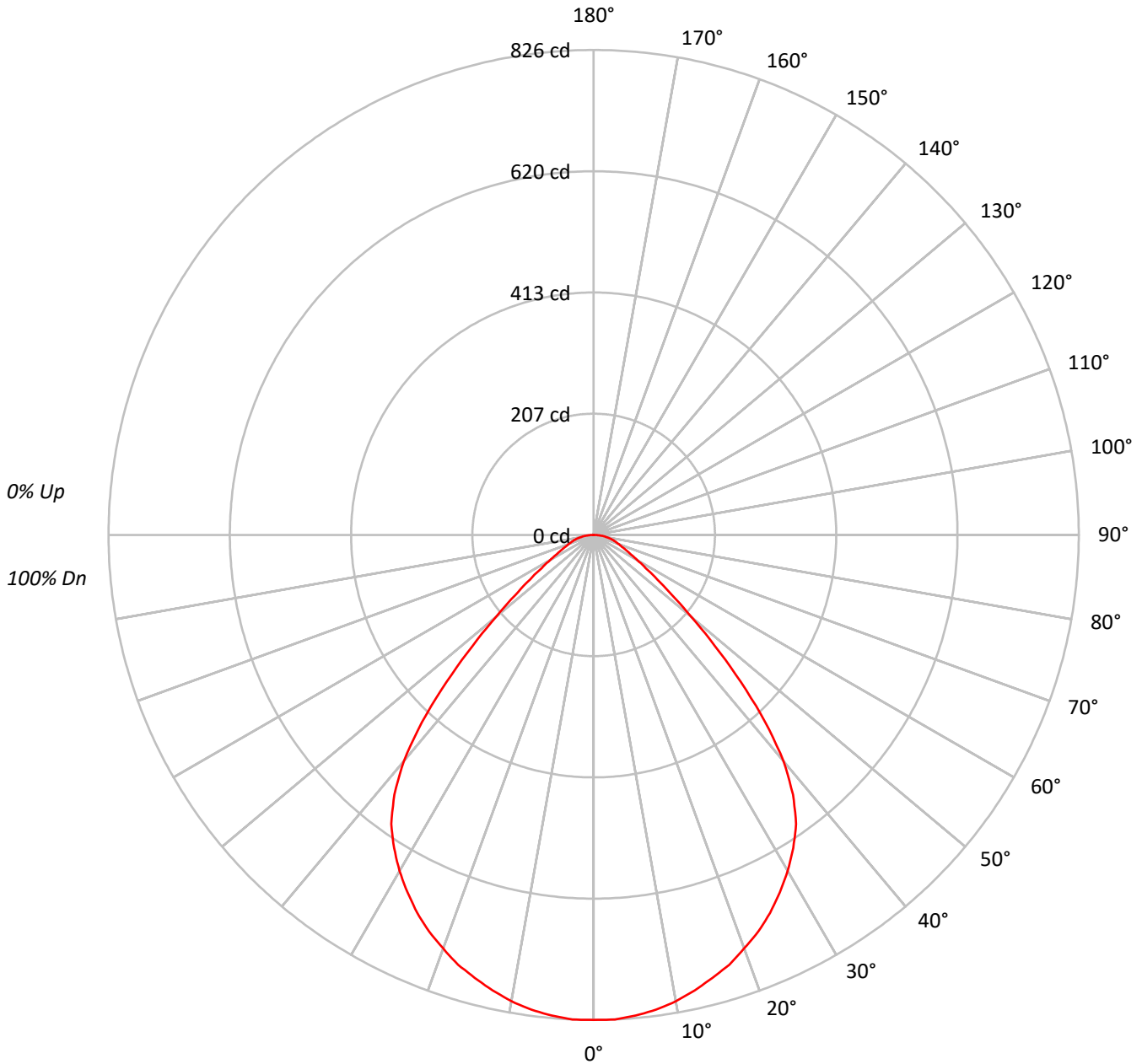
Lumens per Lamp: N/A  
Luminaire Lumens: 1501.4 lumens  
Efficiency: N/A  
Efficacy: 91.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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					20	
RC	80					70					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	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89			89	
2	103	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	79			79	
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	70			70	
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62			62	
5	83	73	65	59	81	71	64	59	70	63	58	68	62	58	66	61	57	56			56	
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50			50	
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45			45	
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41			41	
9	64	52	45	40	63	52	45	40	50	44	40	49	44	39	48	43	39	38			38	
10	60	48	41	37	59	48	41	36	47	41	36	46	40	36	45	40	36	34			34	

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

	0°
0°	45287
5°	45212
10°	44900
15°	44331
20°	43725
25°	42976
30°	41836
35°	40207
40°	36010
45°	27483
50°	18447
55°	12635
60°	9385
65°	7796
70°	7229
75°	7307
80°	7103
85°	6604

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 27483 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.0	5.2
10°-20°	220.4	14.7
20°-30°	326.7	21.8
30°-40°	370.7	24.7
40°-50°	273.0	18.2
50°-60°	123.7	8.2
60°-70°	61.1	4.1
70°-80°	35.9	2.4
80°-90°	12.0	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°	625.0	41.6
0°-40°	995.8	66.3
0°-60°	1392.5	92.7
0°-90°	1501.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1501.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	826	
5°	822	78
15°	781	220
25°	710	327
35°	601	371
45°	354	273
55°	132	124
65°	60	61
75°	34	36
85°	10	12
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	826.1
2.5°	826.1
5°	821.6
7.5°	815.6
10°	806.6
12.5°	794.6
15°	781.1
17.5°	767.5
20°	749.5
22.5°	731.5
25°	710.5
27.5°	686.4
30°	660.9
32.5°	632.4
35°	600.8
37.5°	557.3
40°	503.2
42.5°	432.6
45°	354.5
47.5°	279.4
50°	216.3
52.5°	168.2
55°	132.2
57.5°	105.1
60°	85.6
62.5°	70.6
65°	60.1
67.5°	51.1
70°	45.1
72.5°	39.1
75°	34.5
77.5°	28.5
80°	22.5
82.5°	18.0
85°	10.5
87.5°	4.5
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)