

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: P641801

Luminaire Tested: ML5612LSVWFL97FS1E - 692W - 1200LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641801  
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: ML5612LSVWFL97FS1E - 692W - 1200LM - 2700K  
Description: ML56 RR, MILKY OPTIC, 6" WHITE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

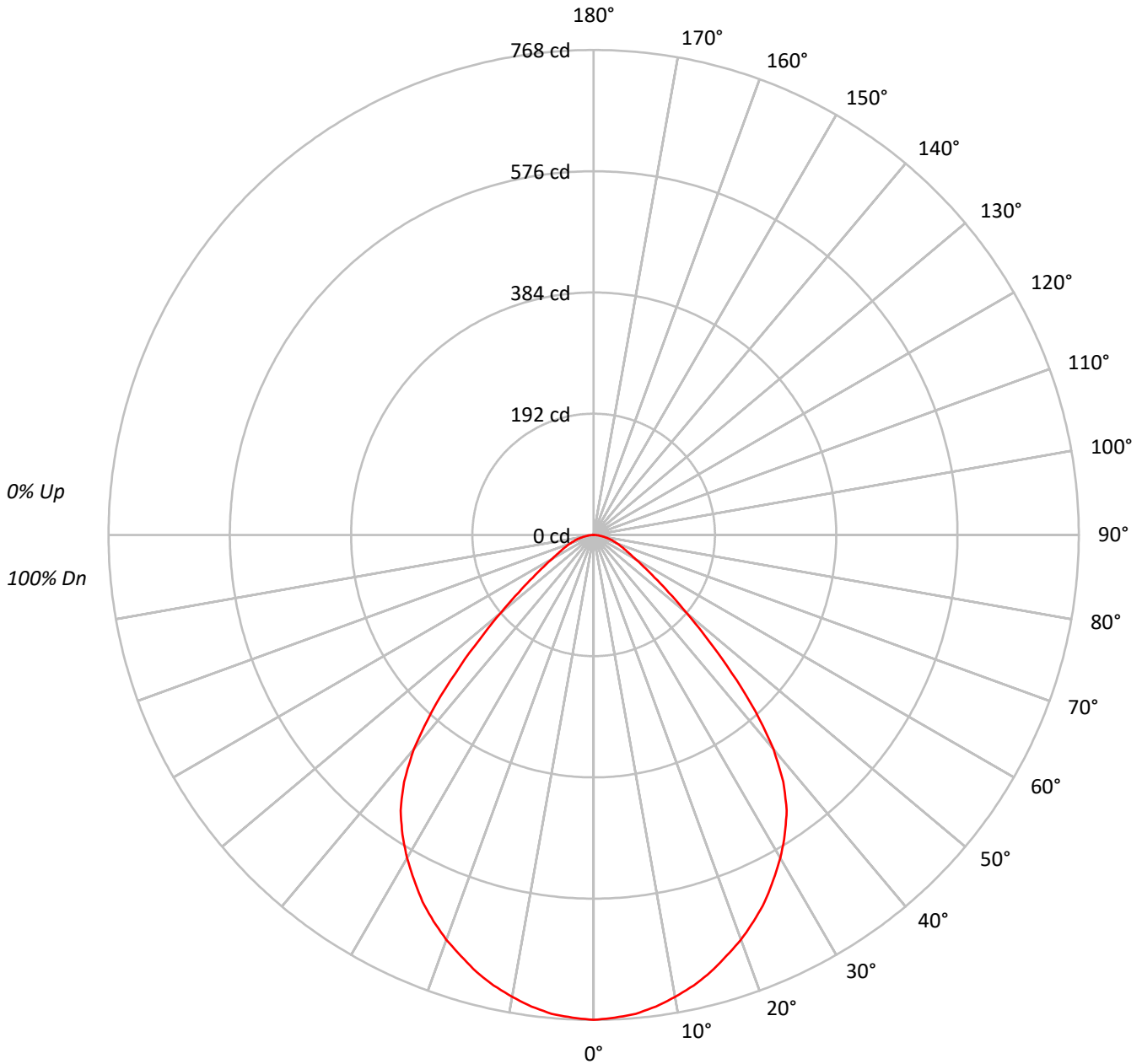
Lumens per Lamp: N/A  
Luminaire Lumens: 1337.9 lumens  
Efficiency: N/A  
Efficacy: 81.1 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 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				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	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°	42096
5°	41894
10°	41349
15°	40659
20°	39787
25°	38772
30°	37398
35°	35650
40°	31688
45°	23979
50°	16349
55°	11240
60°	8409
65°	7031
70°	6363
75°	5888
80°	5020
85°	4151

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 23979 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.1	5.4
10°-20°	201.7	15.1
20°-30°	294.5	22.0
30°-40°	328.9	24.6
40°-50°	239.3	17.9
50°-60°	110.0	8.2
60°-70°	54.9	4.1
70°-80°	28.9	2.2
80°-90°	7.5	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°	568.2	42.5
0°-40°	897.2	67.1
0°-60°	1246.6	93.2
0°-90°	1337.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1337.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	768	
5°	761	72
15°	716	202
25°	641	294
35°	533	329
45°	309	239
55°	118	110
65°	54	55
75°	28	29
85°	7	8
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	767.9
2.5°	765.3
5°	761.3
7.5°	753.4
10°	742.8
12.5°	730.9
15°	716.4
17.5°	699.2
20°	682.0
22.5°	662.2
25°	641.0
27.5°	615.9
30°	590.8
32.5°	563.1
35°	532.7
37.5°	493.0
40°	442.8
42.5°	379.3
45°	309.3
47.5°	244.5
50°	191.7
52.5°	149.4
55°	117.6
57.5°	93.8
60°	76.7
62.5°	63.4
65°	54.2
67.5°	46.3
70°	39.7
72.5°	33.0
75°	27.8
77.5°	21.1
80°	15.9
82.5°	10.6
85°	6.6
87.5°	2.6
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)