

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: P641622

Luminaire Tested: ML5612LSVWFL97FS1E - 592W - 1200LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641622  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-96)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL97FS1E - 592W - 1200LM - 3000K  
Description: ML56 RR, MILKY OPTIC, 5" WHITE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

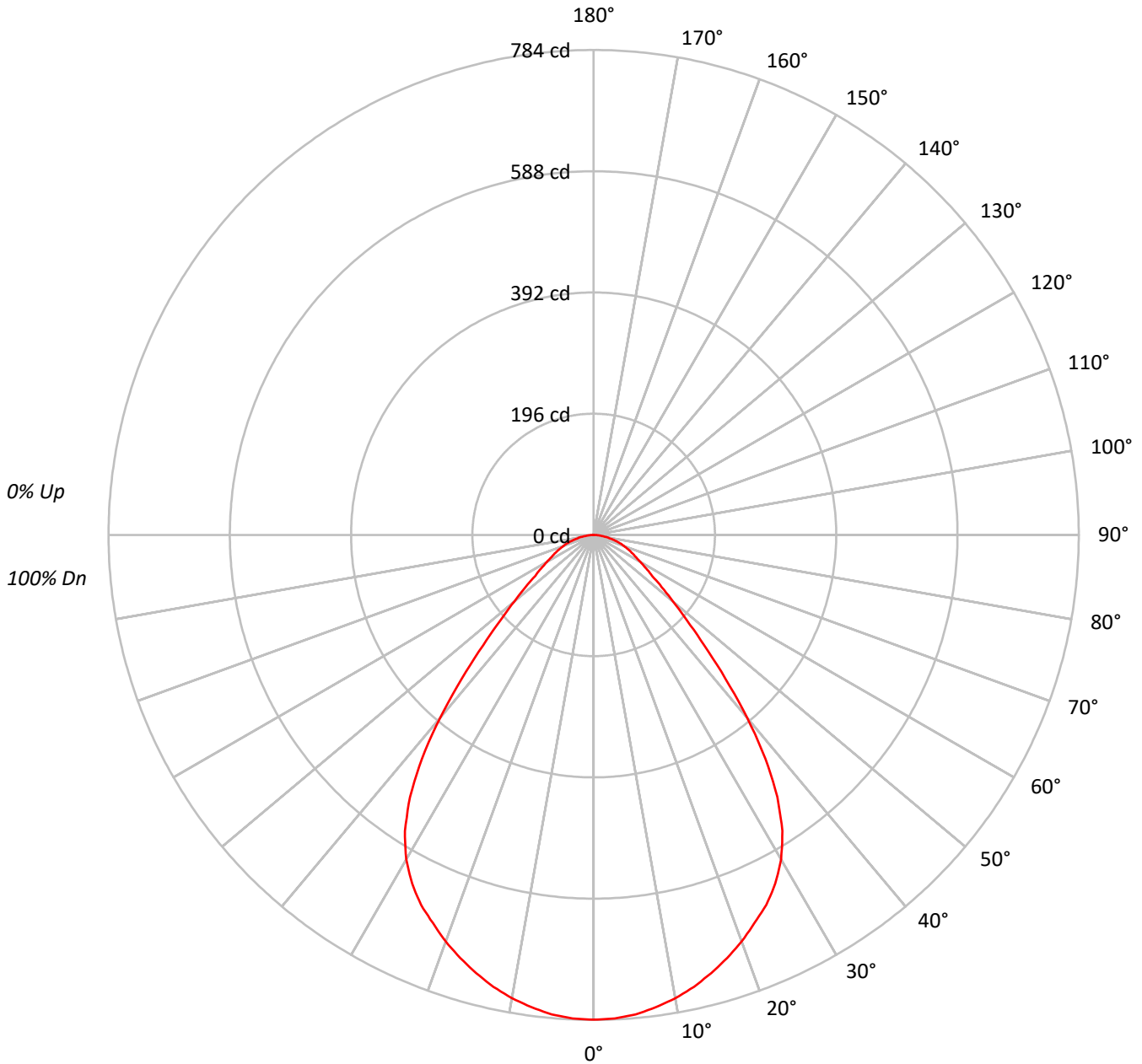
Lumens per Lamp: N/A  
Luminaire Lumens: 1324.3 lumens  
Efficiency: N/A  
Efficacy: 80.3 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 16.5  
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				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			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	70			
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62			
5	84	73	65	60	82	72	65	59	70	64	59	68	62	58	66	61	58	56			
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50			
7	73	61	54	49	72	61	54	48	59	53	48	58	52	48	57	52	48	46			
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	44	42			
9	65	53	46	41	63	52	45	41	51	45	40	50	44	40	49	44	40	38			
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35			

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

	0°
0°	42957
5°	42824
10°	42334
15°	41623
20°	40802
25°	39922
30°	38341
35°	34626
40°	27602
45°	19583
50°	14243
55°	11029
60°	9528
65°	8808
70°	8271
75°	7773
80°	6851
85°	5095

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19583 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.7	5.6
10°-20°	206.7	15.6
20°-30°	302.8	22.9
30°-40°	317.2	24.0
40°-50°	200.5	15.1
50°-60°	107.3	8.1
60°-70°	67.5	5.1
70°-80°	38.7	2.9
80°-90°	9.9	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°	583.1	44.0
0°-40°	900.4	68.0
0°-60°	1208.2	91.2
0°-90°	1324.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1324.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	784	
5°	778	74
15°	733	207
25°	660	303
35°	517	317
45°	253	201
55°	115	107
65°	68	68
75°	37	39
85°	8	10
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	783.6
2.5°	782.3
5°	778.2
7.5°	770.1
10°	760.5
12.5°	748.3
15°	733.4
17.5°	717.1
20°	699.4
22.5°	679.1
25°	660.0
27.5°	635.6
30°	605.7
32.5°	567.7
35°	517.4
37.5°	456.3
40°	385.7
42.5°	315.1
45°	252.6
47.5°	203.7
50°	167.0
52.5°	138.5
55°	115.4
57.5°	100.5
60°	86.9
62.5°	76.1
65°	67.9
67.5°	59.8
70°	51.6
72.5°	44.8
75°	36.7
77.5°	28.5
80°	21.7
82.5°	14.9
85°	8.1
87.5°	2.7
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)