

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: P641706

Luminaire Tested: ML5612LSVWFL97FS1E - 594SNB - 900LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641706  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-102)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL97FS1E - 594SNB - 900LM - 2700K  
Description: ML56 RR, MILKY OPTIC, 5" SATIN NICKLE GIMBAL TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

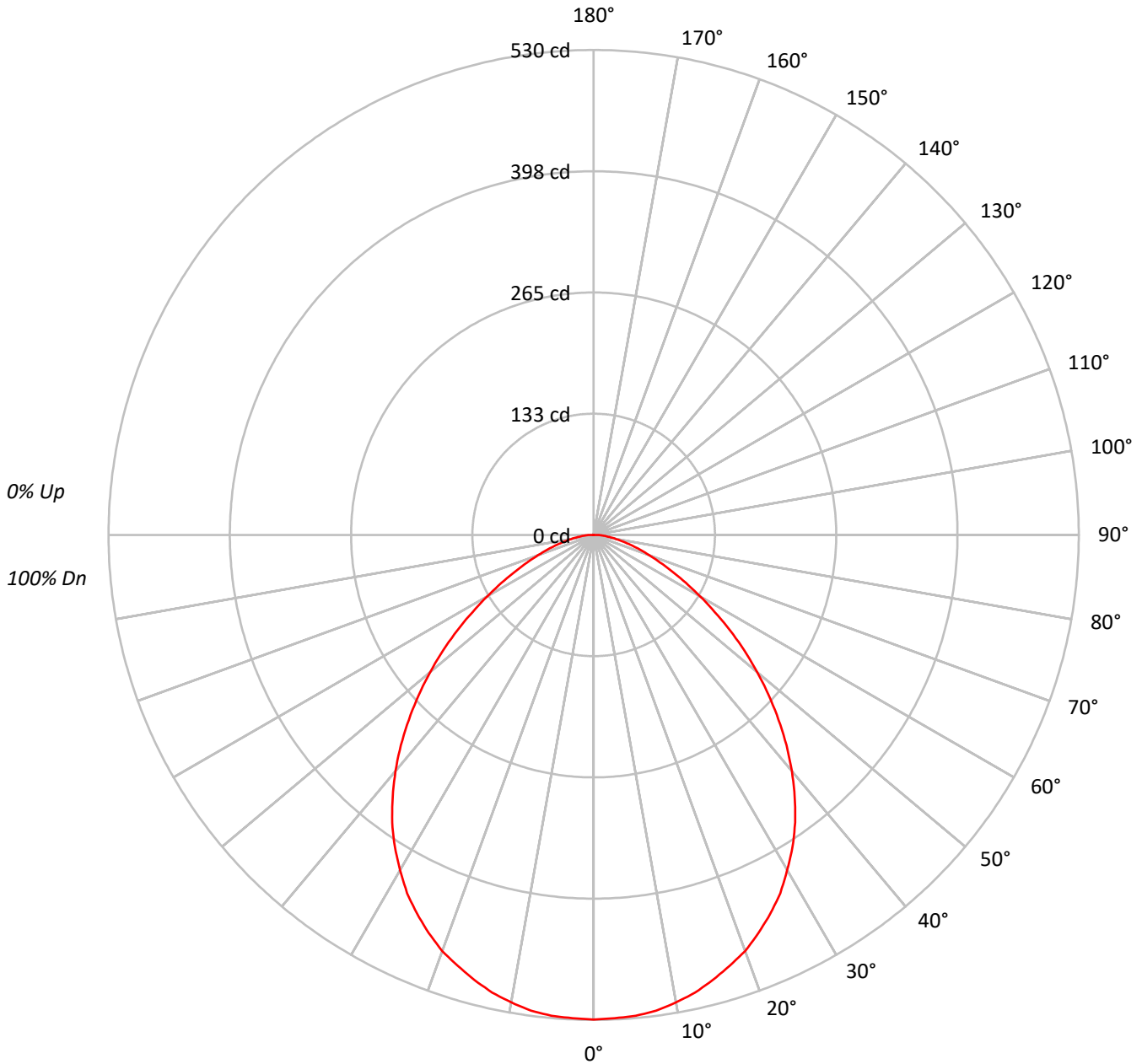
Lumens per Lamp: N/A  
Luminaire Lumens: 1177.2 lumens  
Efficiency: N/A  
Efficacy: 88.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.26  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 13.3  
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								
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87								
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	83	79	76	74								
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64								
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56								
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49								
6	74	61	53	47	72	60	53	47	59	52	46	57	51	46	56	50	46	44								
7	69	56	48	42	67	55	47	42	54	47	42	52	46	41	51	45	41	39								
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35								
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32								
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29								

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

	0°
0°	41815
5°	41800
10°	41586
15°	41149
20°	40651
25°	39779
30°	38549
35°	36977
40°	34707
45°	31884
50°	28639
55°	25049
60°	21172
65°	17708
70°	14841
75°	12627
80°	10910
85°	10869

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 31884 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.1	4.3
10°-20°	142.0	12.1
20°-30°	210.1	17.8
30°-40°	239.0	20.3
40°-50°	219.9	18.7
50°-60°	162.8	13.8
60°-70°	95.3	8.1
70°-80°	44.7	3.8
80°-90°	13.3	1.1
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°	402.1	34.2
0°-40°	641.1	54.5
0°-60°	1023.9	87.0
0°-90°	1177.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1177.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	530	
5°	528	50
15°	504	142
25°	457	210
35°	384	239
45°	286	220
55°	182	163
65°	95	95
75°	41	45
85°	12	13
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	529.7
2.5°	528.6
5°	527.5
7.5°	524.3
10°	518.8
12.5°	512.3
15°	503.5
17.5°	493.7
20°	483.9
22.5°	470.8
25°	456.7
27.5°	441.4
30°	422.9
32.5°	404.4
35°	383.7
37.5°	360.8
40°	336.8
42.5°	311.7
45°	285.6
47.5°	259.4
50°	233.2
52.5°	207.1
55°	182.0
57.5°	156.9
60°	134.1
62.5°	113.4
65°	94.8
67.5°	78.5
70°	64.3
72.5°	52.3
75°	41.4
77.5°	31.6
80°	24.0
82.5°	17.4
85°	12.0
87.5°	7.6
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)