

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: P640453

Luminaire Tested: ML5609LSVWFLD2W1E - 594SNB - 900LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640453  
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: ML5609LSVWFLD2W1E - 594SNB - 900LM - 2700K  
Description: ML56 RR, MILKY OPTIC, 5" SATIN NICKLE GIMBAL TRIM  
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

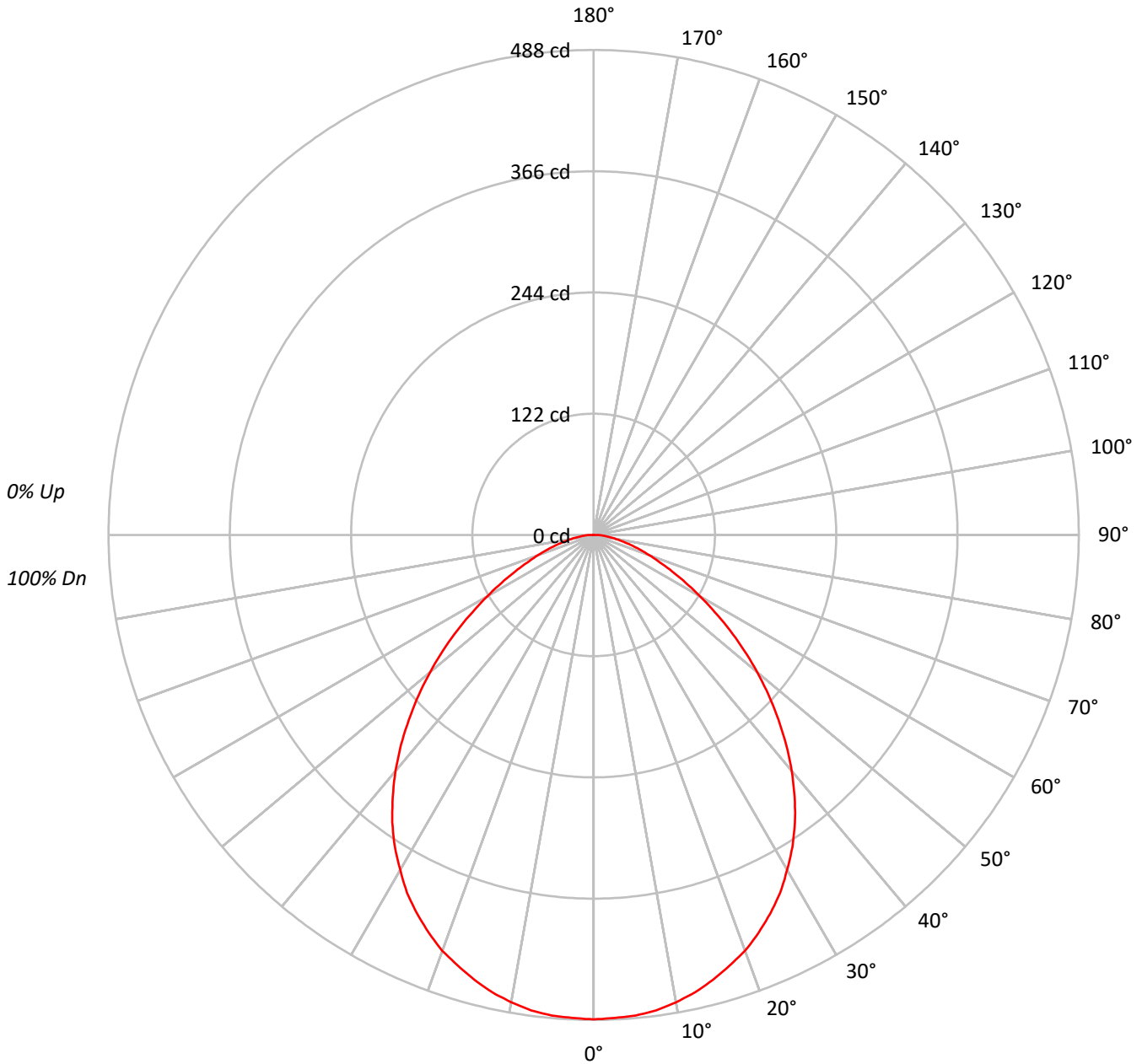
Lumens per Lamp: N/A  
Luminaire Lumens: 1083.5 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.26  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.8  
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	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°	38484
5°	38472
10°	38276
15°	37880
20°	37417
25°	36609
30°	35477
35°	34028
40°	31946
45°	29339
50°	26367
55°	23053
60°	19483
65°	16307
70°	13664
75°	11621
80°	10047
85°	9963

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 29339 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.1	4.3
10°-20°	130.7	12.1
20°-30°	193.3	17.8
30°-40°	220.0	20.3
40°-50°	202.4	18.7
50°-60°	149.9	13.8
60°-70°	87.7	8.1
70°-80°	41.1	3.8
80°-90°	12.3	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°	370.1	34.2
0°-40°	590.1	54.5
0°-60°	942.4	87.0
0°-90°	1083.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1083.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	488	
5°	486	46
15°	464	131
25°	420	193
35°	353	220
45°	263	202
55°	168	150
65°	87	88
75°	38	41
85°	11	12
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	487.5
2.5°	486.5
5°	485.5
7.5°	482.5
10°	477.5
12.5°	471.5
15°	463.5
17.5°	454.4
20°	445.4
22.5°	433.4
25°	420.3
27.5°	406.3
30°	389.2
32.5°	372.2
35°	353.1
37.5°	332.0
40°	310.0
42.5°	286.9
45°	262.8
47.5°	238.7
50°	214.7
52.5°	190.6
55°	167.5
57.5°	144.5
60°	123.4
62.5°	104.3
65°	87.3
67.5°	72.2
70°	59.2
72.5°	48.2
75°	38.1
77.5°	29.1
80°	22.1
82.5°	16.1
85°	11.0
87.5°	7.0
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)