

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: P640458

Luminaire Tested: ML5609LSVWFLD2W1E - 594WB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640458
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-101)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSVWFLD2W1E - 594WB - 900LM - 3000K
Description: ML56 RR, MILKY OPTIC, 5" WHITE GIMBAL TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1182.4 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.28
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

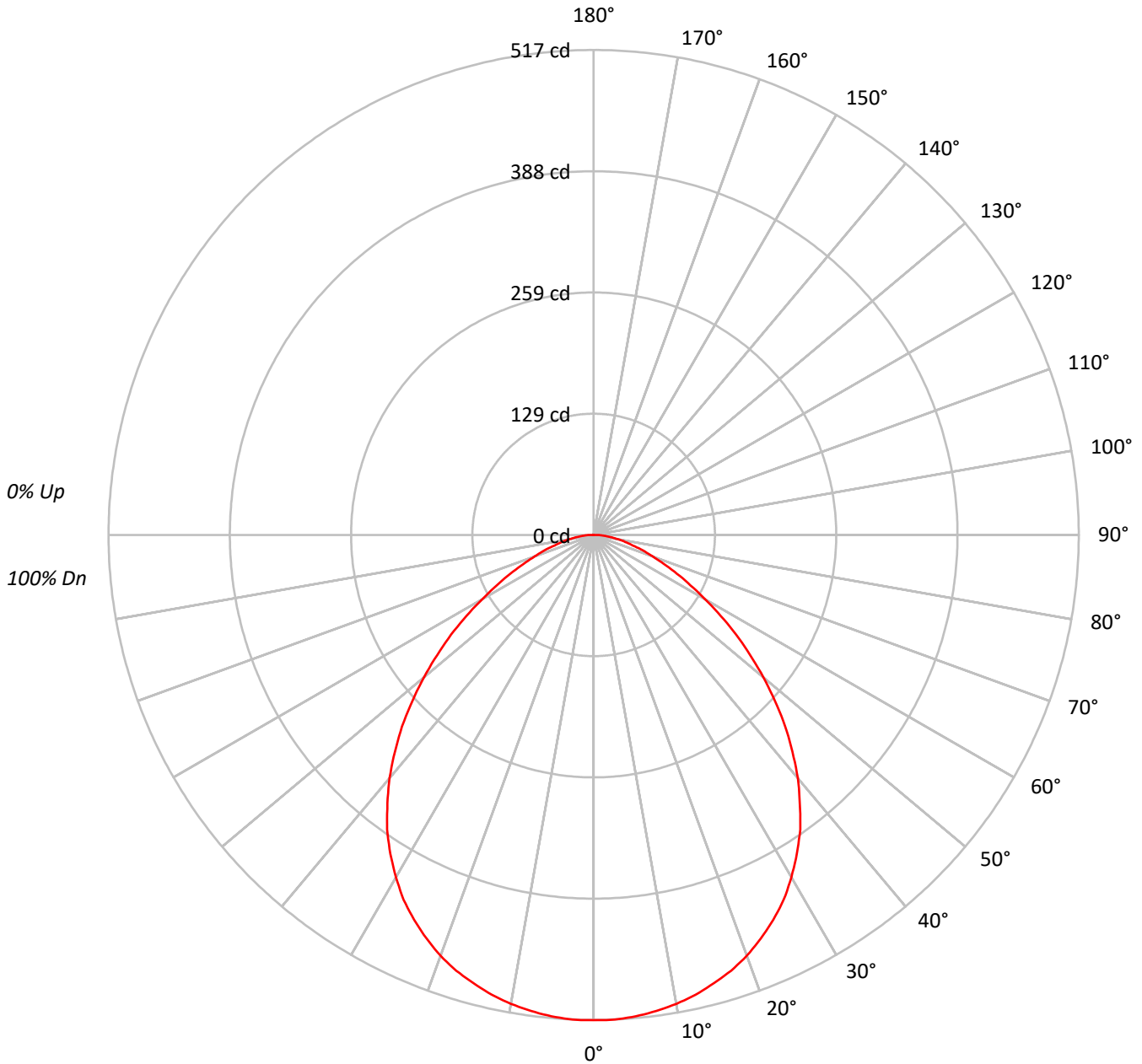
Input Watts (W): 11.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	107	104	100	97	99	97	94	96	93	91	92	90	88	86			
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74			
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64			
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56			
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	60	55	51	49			
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	31			
10	56	43	36	31	55	43	36	31	42	35	31	41	35	31	40	34	30	29			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	40836
5°	40826
10°	40689
15°	40430
20°	40105
25°	39431
30°	38412
35°	36977
40°	34872
45°	32241
50°	28983
55°	25516
60°	21614
65°	18324
70°	15418
75°	13146
80°	11774
85°	10778

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 32241 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	4.1
10°-20°	139.6	11.8
20°-30°	208.3	17.6
30°-40°	238.9	20.2
40°-50°	221.9	18.8
50°-60°	165.7	14.0
60°-70°	98.1	8.3
70°-80°	47.2	4.0
80°-90°	13.8	1.2
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°	396.8	33.6
0°-40°	635.7	53.8
0°-60°	1023.3	86.5
0°-90°	1182.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1182.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	517	
5°	515	49
15°	495	140
25°	453	208
35°	384	239
45°	289	222
55°	185	166
65°	98	98
75°	43	47
85°	12	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	517.3
2.5°	517.3
5°	515.2
7.5°	511.9
10°	507.6
12.5°	502.2
15°	494.7
17.5°	487.1
20°	477.4
22.5°	465.6
25°	452.7
27.5°	438.6
30°	421.4
32.5°	403.1
35°	383.7
37.5°	361.0
40°	338.4
42.5°	313.6
45°	288.8
47.5°	261.9
50°	236.0
52.5°	210.2
55°	185.4
57.5°	160.6
60°	136.9
62.5°	116.4
65°	98.1
67.5°	80.8
70°	66.8
72.5°	55.0
75°	43.1
77.5°	34.5
80°	25.9
82.5°	18.3
85°	11.9
87.5°	7.5
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)