

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: P640454

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

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640454
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 - 3000K
Description: ML56 RR, MILKY OPTIC, 5" SATIN NICKLE GIMBAL TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

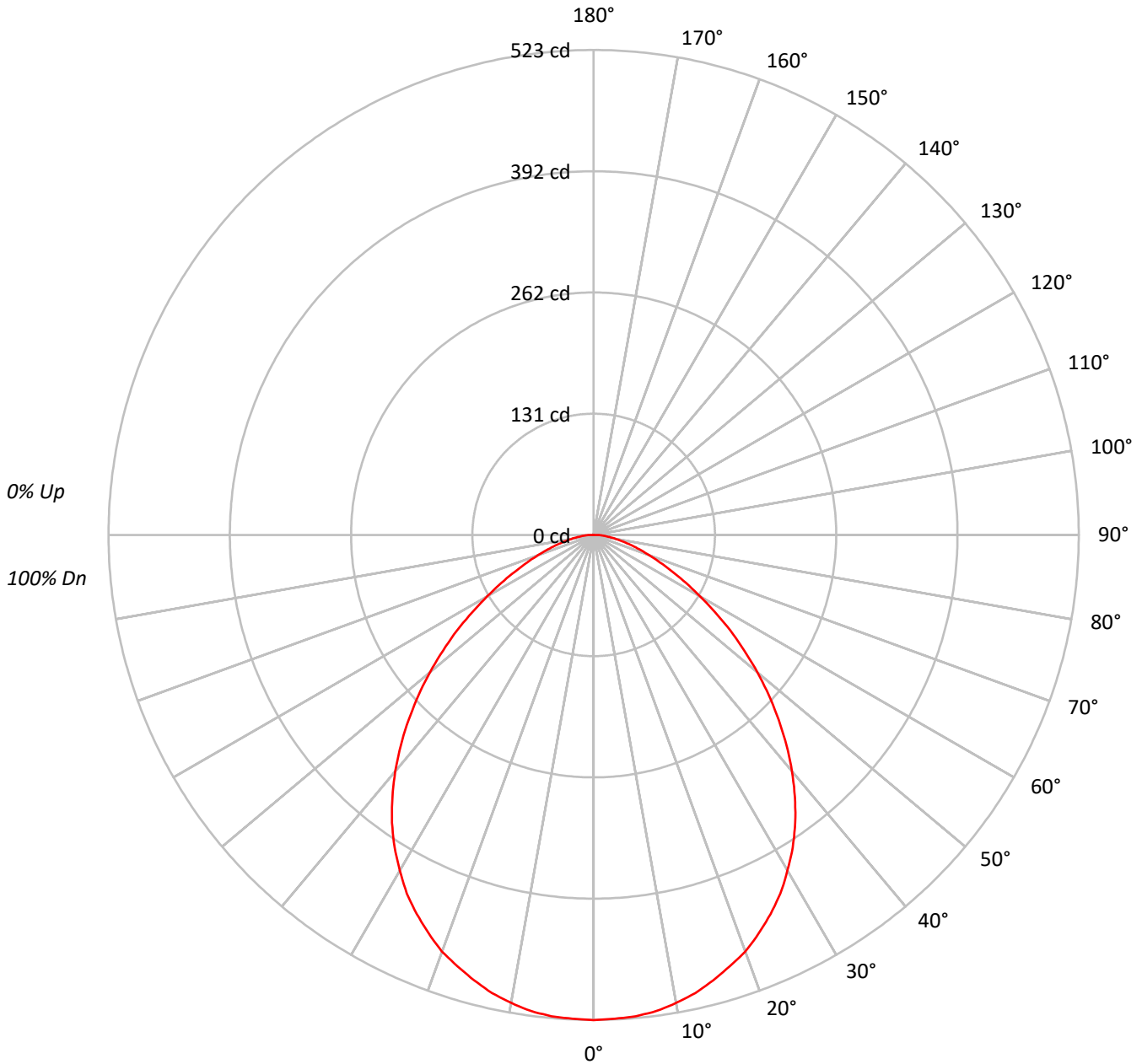
Lumens per Lamp: N/A
Luminaire Lumens: 1162.9 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.26
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 11.8
Input Voltage (V): NR
Input Current (A_{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									
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			100																
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87			87																
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	83	79	76	74			74																
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64			64																
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56			56																
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49			49																
6	74	61	53	47	72	60	53	47	59	52	46	57	51	46	56	50	46	44			44																
7	69	56	48	42	67	55	47	42	54	47	42	52	46	41	51	45	41	39			39																
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35			35																
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32			32																
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29			29																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	41310
5°	41293
10°	41081
15°	40650
20°	40164
25°	39292
30°	38084
35°	36524
40°	34285
45°	31493
50°	28295
55°	24746
60°	20904
65°	17502
70°	14656
75°	12475
80°	10774
85°	10688

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 31493 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.5	4.3
10°-20°	140.3	12.1
20°-30°	207.5	17.8
30°-40°	236.1	20.3
40°-50°	217.3	18.7
50°-60°	160.8	13.8
60°-70°	94.1	8.1
70°-80°	44.1	3.8
80°-90°	13.2	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°	397.3	34.2
0°-40°	633.4	54.5
0°-60°	1011.5	87.0
0°-90°	1162.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1162.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	523	
5°	521	49
15°	497	140
25°	451	208
35°	379	236
45°	282	217
55°	180	161
65°	94	94
75°	41	44
85°	12	13
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	523.3
2.5°	522.2
5°	521.1
7.5°	517.9
10°	512.5
12.5°	506.1
15°	497.4
17.5°	487.8
20°	478.1
22.5°	465.1
25°	451.1
27.5°	436.1
30°	417.8
32.5°	399.5
35°	379.0
37.5°	356.4
40°	332.7
42.5°	307.9
45°	282.1
47.5°	256.3
50°	230.4
52.5°	204.6
55°	179.8
57.5°	155.0
60°	132.4
62.5°	112.0
65°	93.7
67.5°	77.5
70°	63.5
72.5°	51.7
75°	40.9
77.5°	31.2
80°	23.7
82.5°	17.2
85°	11.8
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)