

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: P640448

Luminaire Tested: ML5609LSVWFLD2W1E - 593SNB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640448
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-99)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSVWFLD2W1E - 593SNB - 900LM - 3000K
Description: ML56 RR, MILKY OPTIC, 5" SATIN NICKLE BAFFLE TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

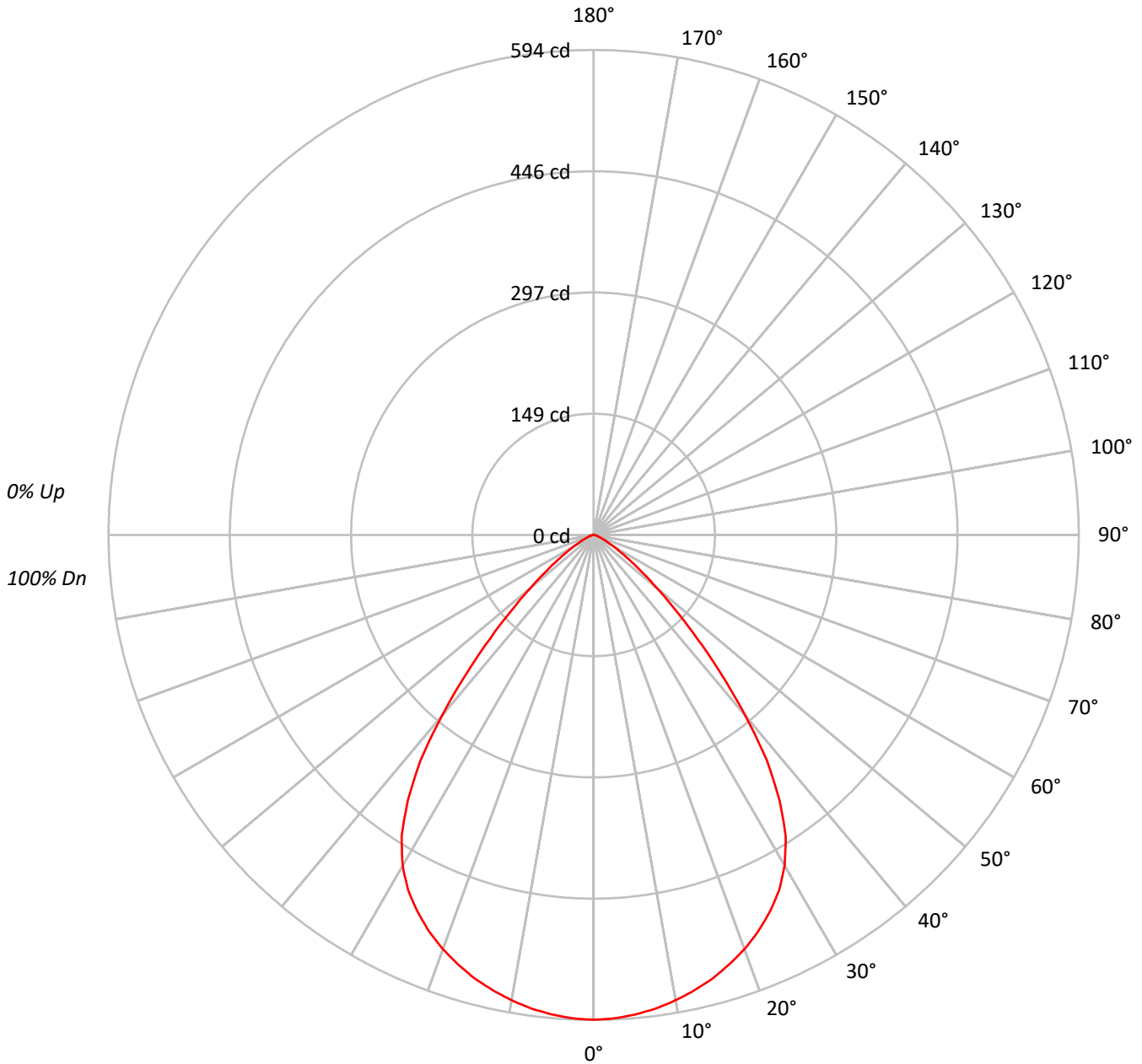
Lumens per Lamp: N/A
Luminaire Lumens: 903.9 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.14
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 11.8
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			100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91			91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82			82
3	99	91	85	81	97	90	84	80	87	82	79	84	81	77	82	79	76	74			74
4	93	84	77	72	91	82	76	72	80	75	71	78	73	70	76	72	69	67			67
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55			55
7	76	65	58	53	75	65	58	53	63	57	53	62	57	53	61	56	52	51			51
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			46
9	68	56	50	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43			43
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39			39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	46875
5°	46713
10°	46388
15°	45971
20°	45355
25°	44396
30°	42632
35°	38220
40°	29761
45°	19972
50°	12306
55°	7418
60°	4421
65°	2615
70°	1500
75°	1312
80°	1000
85°	996

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19972 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.9	6.2
10°-20°	158.5	17.5
20°-30°	234.0	25.9
30°-40°	242.9	26.9
40°-50°	141.0	15.6
50°-60°	51.2	5.7
60°-70°	14.8	1.6
70°-80°	4.5	0.5
80°-90°	0.9	0.1
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°	448.5	49.6
0°-40°	691.4	76.5
0°-60°	883.6	97.8
0°-90°	903.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	903.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	594	
5°	590	56
15°	562	159
25°	510	234
35°	397	243
45°	179	141
55°	54	51
65°	14	15
75°	4	5
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	593.8
2.5°	592.7
5°	589.5
7.5°	585.1
10°	578.7
12.5°	571.1
15°	562.5
17.5°	551.7
20°	539.9
22.5°	525.9
25°	509.7
27.5°	491.4
30°	467.7
32.5°	437.5
35°	396.6
37.5°	348.1
40°	288.8
42.5°	230.6
45°	178.9
47.5°	134.7
50°	100.2
52.5°	74.4
55°	53.9
57.5°	38.8
60°	28.0
62.5°	19.4
65°	14.0
67.5°	9.7
70°	6.5
72.5°	5.4
75°	4.3
77.5°	3.2
80°	2.2
82.5°	1.1
85°	1.1
87.5°	0.0
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)