

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: P640450

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

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640450
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-100)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSVWFLD2W1E - 593TBZB - 900LM - 3000K
Description: ML56 RR, MILKY OPTIC, 5" TUSCON BRONZE BAFFLE TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 791.2 lumens
Efficiency: N/A
Efficacy: 67.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.12
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

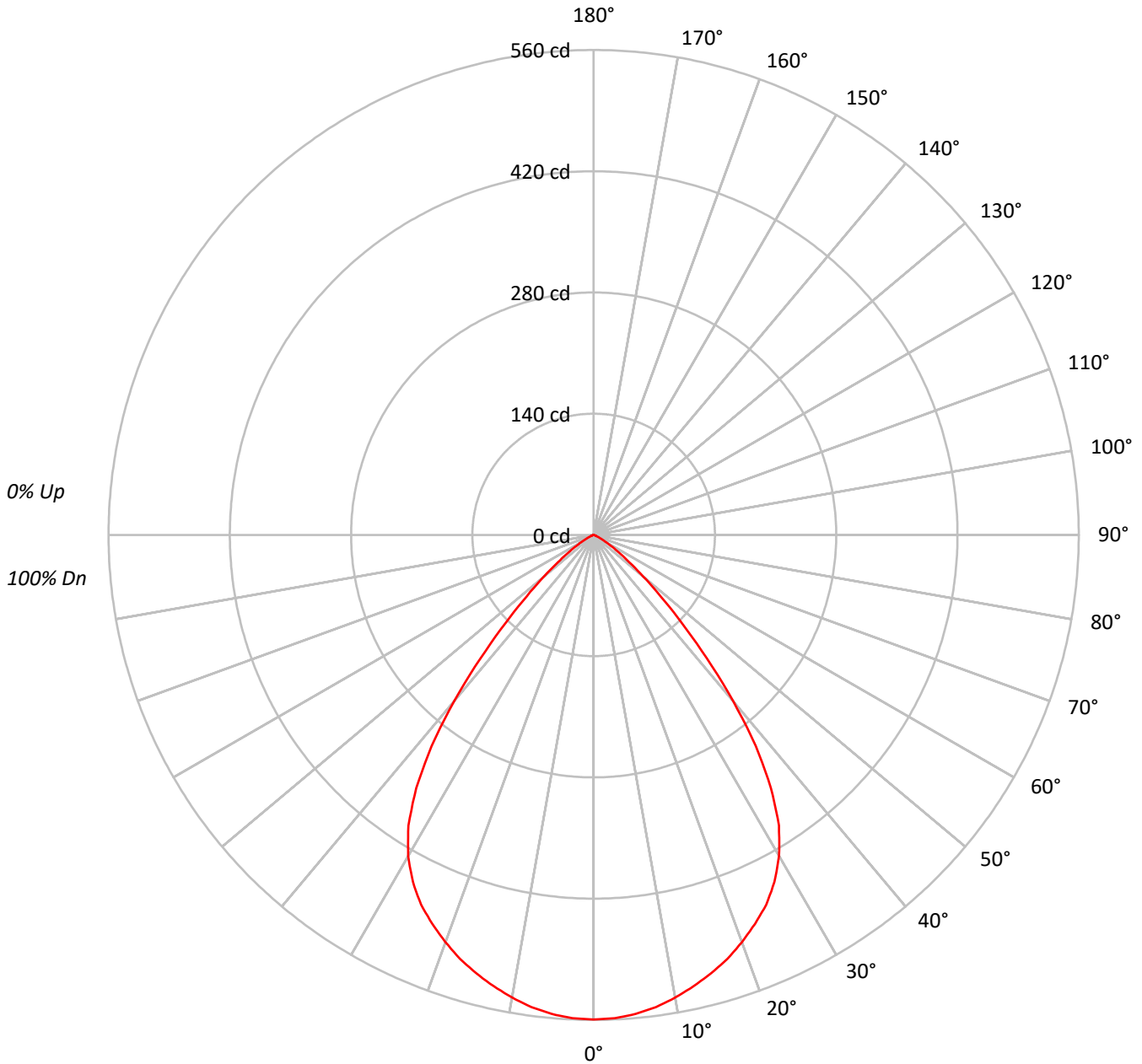
Input Watts (W): 11.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	100	100
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92
2	106	101	96	92	104	99	95	91	96	92	89	92	90	87	90	87	85	84	84	84	84
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76	76	76	76
4	94	85	79	74	92	84	78	73	81	76	72	79	75	71	77	74	71	69	69	69	69
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	64	63	63	63	63
6	83	72	65	61	81	71	65	60	70	64	60	68	63	59	67	62	59	57	57	57	57
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53	53	53	53
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	53	50	48	48	48	48
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45	45	45	45
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41	41	41	41

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	44175
5°	44003
10°	43478
15°	42824
20°	42029
25°	41042
30°	39023
35°	34394
40°	25783
45°	16009
50°	9137
55°	4900
60°	2384
65°	1009
70°	508
75°	336
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16009 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.6	6.6
10°-20°	147.7	18.7
20°-30°	215.8	27.3
30°-40°	217.9	27.5
40°-50°	114.9	14.5
50°-60°	34.5	4.4
60°-70°	6.6	0.8
70°-80°	1.2	0.1
80°-90°	0.0	0.0
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°	416.1	52.6
0°-40°	634.0	80.1
0°-60°	783.4	99.0
0°-90°	791.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	791.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	560	
5°	555	53
15°	524	148
25°	471	216
35°	357	218
45°	143	115
55°	36	34
65°	5	7
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	559.6
2.5°	558.6
5°	555.3
7.5°	549.9
10°	542.4
12.5°	533.8
15°	524.0
17.5°	513.3
20°	500.3
22.5°	486.3
25°	471.2
27.5°	451.8
30°	428.1
32.5°	397.9
35°	356.9
37.5°	307.3
40°	250.2
42.5°	193.0
45°	143.4
47.5°	104.6
50°	74.4
52.5°	51.8
55°	35.6
57.5°	23.7
60°	15.1
62.5°	9.7
65°	5.4
67.5°	3.2
70°	2.2
72.5°	1.1
75°	1.1
77.5°	1.1
80°	0.0
82.5°	0.0
85°	0.0
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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