

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: P640473

Luminaire Tested: ML5609LSVWFLD2W1E - 693TBZB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640473
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-112)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSVWFLD2W1E - 693TBZB - 900LM - 2700K
Description: ML56 RR, MILKY OPTIC, 6" TUSCON BRONZE BAFFLE TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

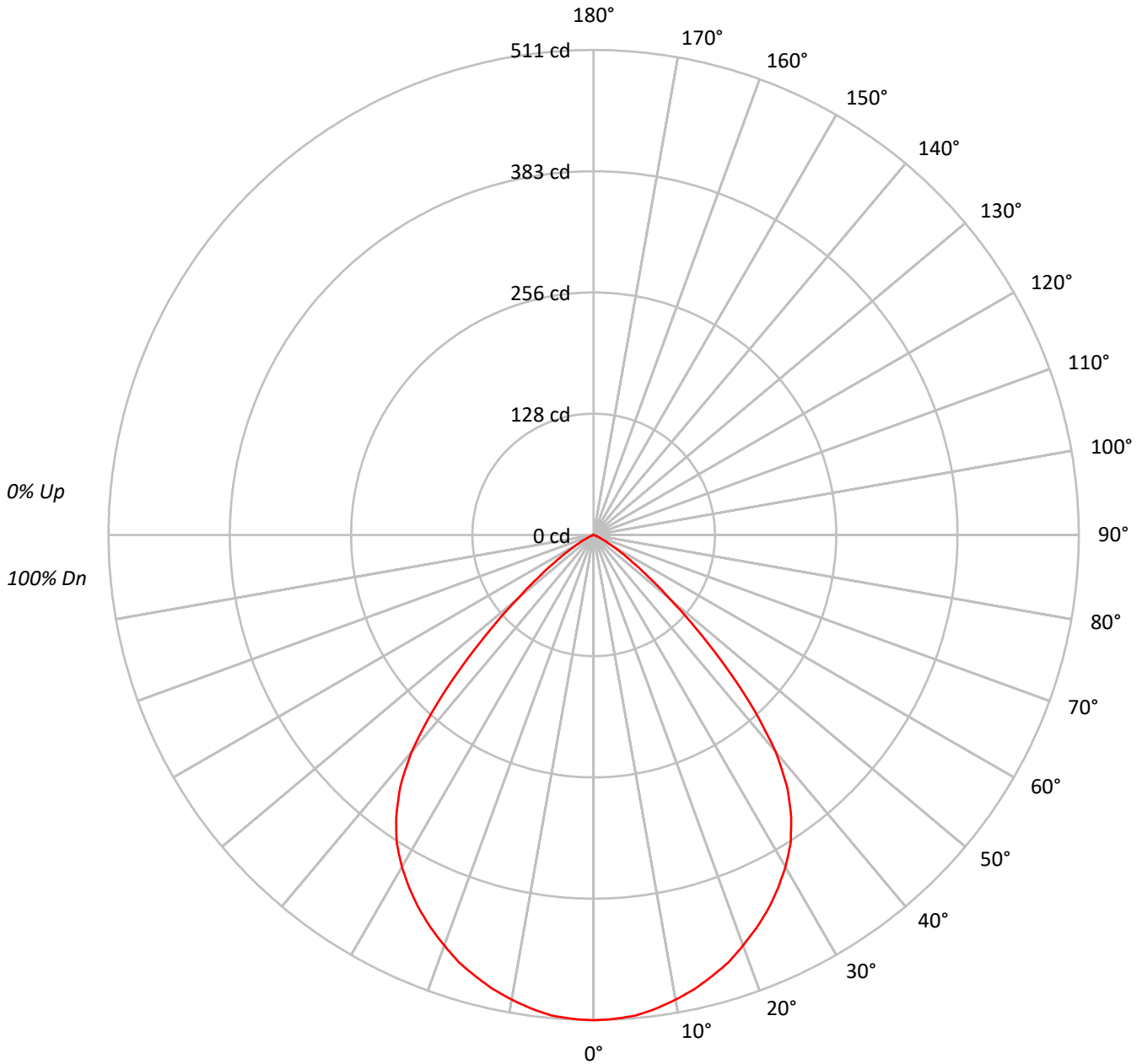
Lumens per Lamp: N/A
Luminaire Lumens: 817.1 lumens
Efficiency: N/A
Efficacy: 69.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82			
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74			
4	92	83	77	72	90	82	76	71	80	75	70	78	73	69	76	72	69	67			
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60			
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55			
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50			
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			
9	67	56	49	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42			
10	63	52	45	40	62	51	45	40	50	44	40	50	44	40	49	44	40	38			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	28035
5°	27977
10°	27683
15°	27316
20°	26847
25°	26312
30°	25567
35°	24273
40°	21354
45°	15265
50°	8912
55°	4702
60°	2204
65°	908
70°	321
75°	212
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15265 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.2	5.9
10°-20°	135.7	16.6
20°-30°	200.0	24.5
30°-40°	224.0	27.4
40°-50°	151.9	18.6
50°-60°	48.2	5.9
60°-70°	8.1	1.0
70°-80°	1.1	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°	383.9	47.0
0°-40°	607.9	74.4
0°-60°	807.9	98.9
0°-90°	817.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	817.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	511	
5°	508	48
15°	481	136
25°	435	200
35°	363	224
45°	197	152
55°	49	48
65°	7	8
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	511.4
2.5°	510.4
5°	508.4
7.5°	503.4
10°	497.3
12.5°	490.3
15°	481.3
17.5°	472.2
20°	460.2
22.5°	448.1
25°	435.0
27.5°	420.0
30°	403.9
32.5°	385.8
35°	362.7
37.5°	334.6
40°	298.4
42.5°	250.2
45°	196.9
47.5°	146.7
50°	104.5
52.5°	73.3
55°	49.2
57.5°	33.2
60°	20.1
62.5°	12.1
65°	7.0
67.5°	3.0
70°	2.0
72.5°	1.0
75°	1.0
77.5°	1.0
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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