

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: P640474

Luminaire Tested: ML5609LSVWFLD2W1E - 693TBZB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640474
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 - 3000K
Description: ML56 RR, MILKY OPTIC, 6" TUSCON BRONZE BAFFLE TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

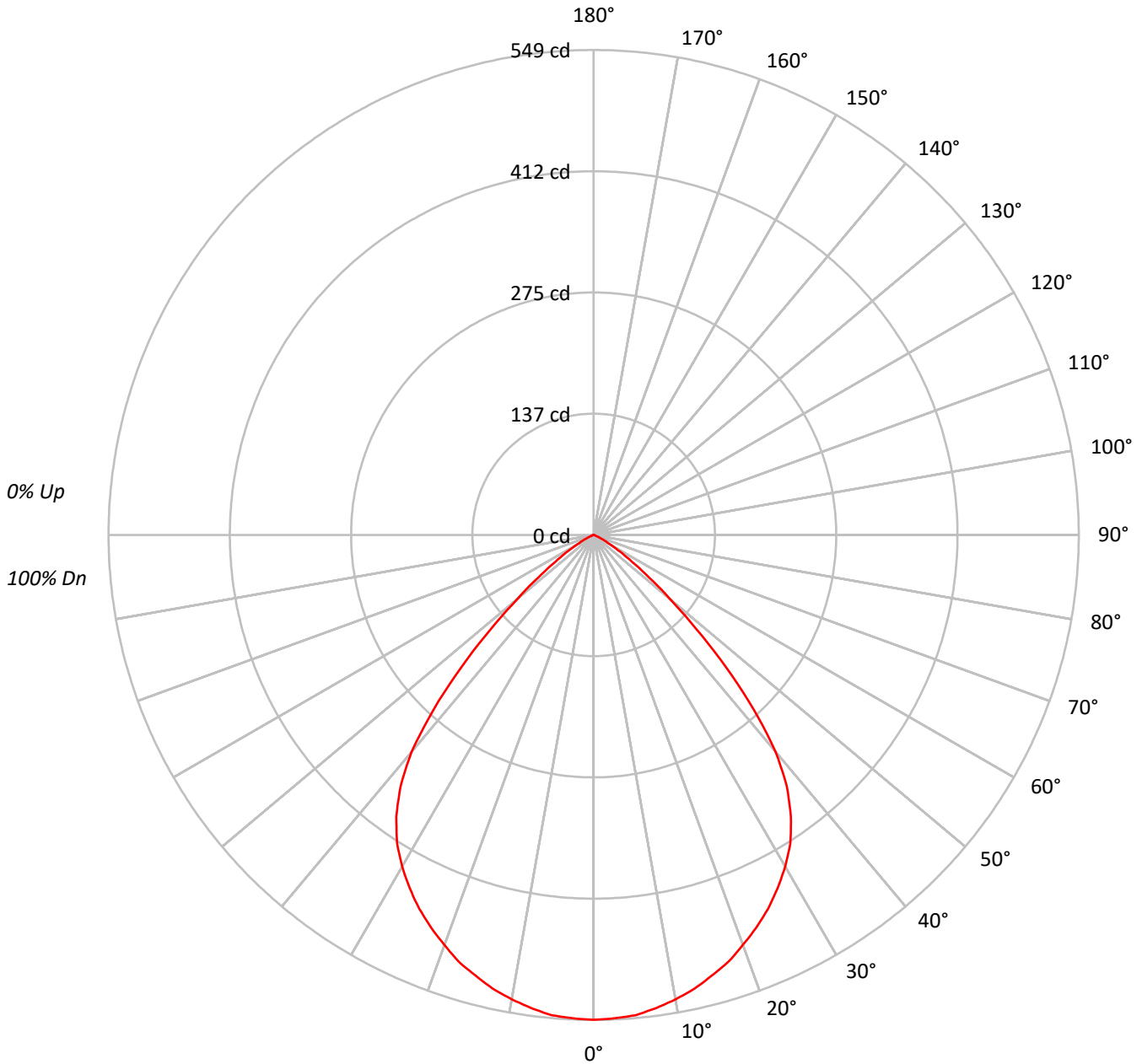
Lumens per Lamp: N/A
Luminaire Lumens: 877.0 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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
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°	30091
5°	30030
10°	29714
15°	29319
20°	28813
25°	28248
30°	27441
35°	26053
40°	22922
45°	16389
50°	9569
55°	5046
60°	2368
65°	973
70°	353
75°	233
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16389 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.7	5.9
10°-20°	145.7	16.6
20°-30°	214.7	24.5
30°-40°	240.4	27.4
40°-50°	163.0	18.6
50°-60°	51.7	5.9
60°-70°	8.7	1.0
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°	412.1	47.0
0°-40°	652.5	74.4
0°-60°	867.2	98.9
0°-90°	877.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	877.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	549	
5°	546	52
15°	517	146
25°	467	215
35°	389	240
45°	211	163
55°	53	52
65°	8	9
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	548.9
2.5°	547.8
5°	545.7
7.5°	540.3
10°	533.8
12.5°	526.3
15°	516.6
17.5°	506.9
20°	493.9
22.5°	481.0
25°	467.0
27.5°	450.8
30°	433.5
32.5°	414.1
35°	389.3
37.5°	359.1
40°	320.3
42.5°	268.5
45°	211.4
47.5°	157.4
50°	112.2
52.5°	78.7
55°	52.8
57.5°	35.6
60°	21.6
62.5°	12.9
65°	7.5
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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(END OF REPORT)