

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: P640479

Luminaire Tested: ML5609LSVWFLD2W1E - 694WB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640479
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-113)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSVWFLD2W1E - 694WB - 900LM - 2700K
Description: ML56 RR, MILKY OPTIC, 6" WHITE GIMBAL TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

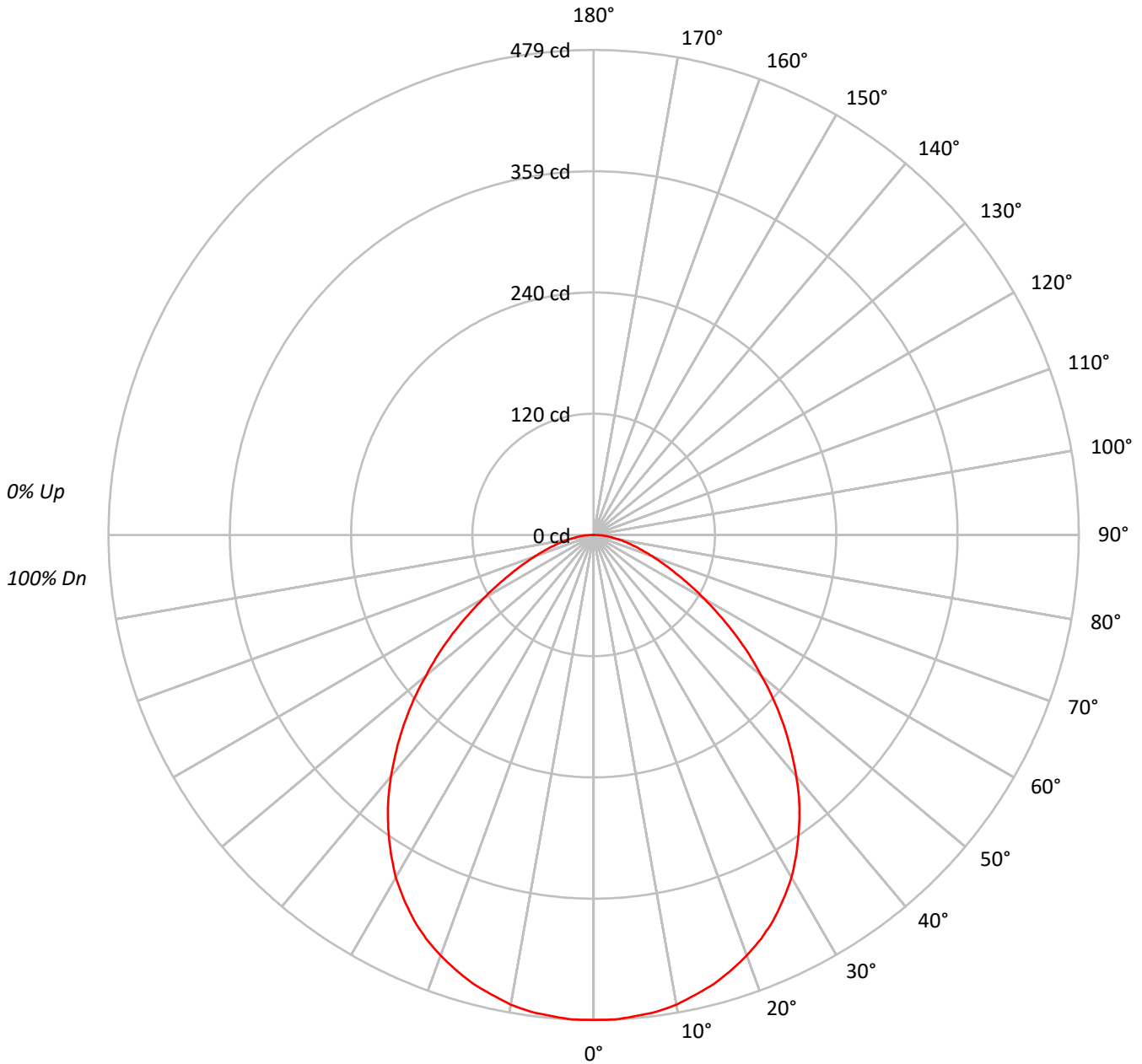
Lumens per Lamp: N/A
Luminaire Lumens: 1090.6 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.28
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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									
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																			
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86																			
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74																			
3	93	83	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64																			
4	86	75	67	61	84	73	66	60	71	64	59	69	63	59	67	62	58	56																			
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49																			
6	74	61	53	47	72	60	52	46	58	51	46	57	51	46	55	50	45	43																			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39																			
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35																			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32																			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	26264
5°	26255
10°	26224
15°	26056
20°	25786
25°	25399
30°	24732
35°	23664
40°	22285
45°	20560
50°	18422
55°	16229
60°	13771
65°	11597
70°	9825
75°	8515
80°	7608
85°	7611

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20560 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.4	4.2
10°-20°	129.4	11.9
20°-30°	193.0	17.7
30°-40°	220.6	20.2
40°-50°	203.9	18.7
50°-60°	151.8	13.9
60°-70°	89.8	8.2
70°-80°	43.5	4.0
80°-90°	13.1	1.2
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°	367.8	33.7
0°-40°	588.4	54.0
0°-60°	944.1	86.6
0°-90°	1090.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1090.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	479	
5°	477	45
15°	459	129
25°	420	193
35°	354	221
45°	265	204
55°	170	152
65°	89	90
75°	40	44
85°	12	13
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	479.1
2.5°	479.1
5°	477.1
7.5°	475.1
10°	471.1
12.5°	465.1
15°	459.1
17.5°	451.0
20°	442.0
22.5°	431.9
25°	419.9
27.5°	405.8
30°	390.7
32.5°	372.7
35°	353.6
37.5°	333.5
40°	311.4
42.5°	288.3
45°	265.2
47.5°	241.1
50°	216.0
52.5°	192.9
55°	169.8
57.5°	146.7
60°	125.6
62.5°	106.5
65°	89.4
67.5°	74.3
70°	61.3
72.5°	50.2
75°	40.2
77.5°	32.1
80°	24.1
82.5°	17.1
85°	12.1
87.5°	7.0
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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