

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: P640462

Luminaire Tested: ML5609LSVWFLD2W1E - 691WB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640462
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-105)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSVWFLD2W1E - 691WB - 900LM - 3000K
Description: ML56 RR, MILKY OPTIC, 6" DEADFRONT TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1132.8 lumens
Efficiency: N/A
Efficacy: 96.0 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

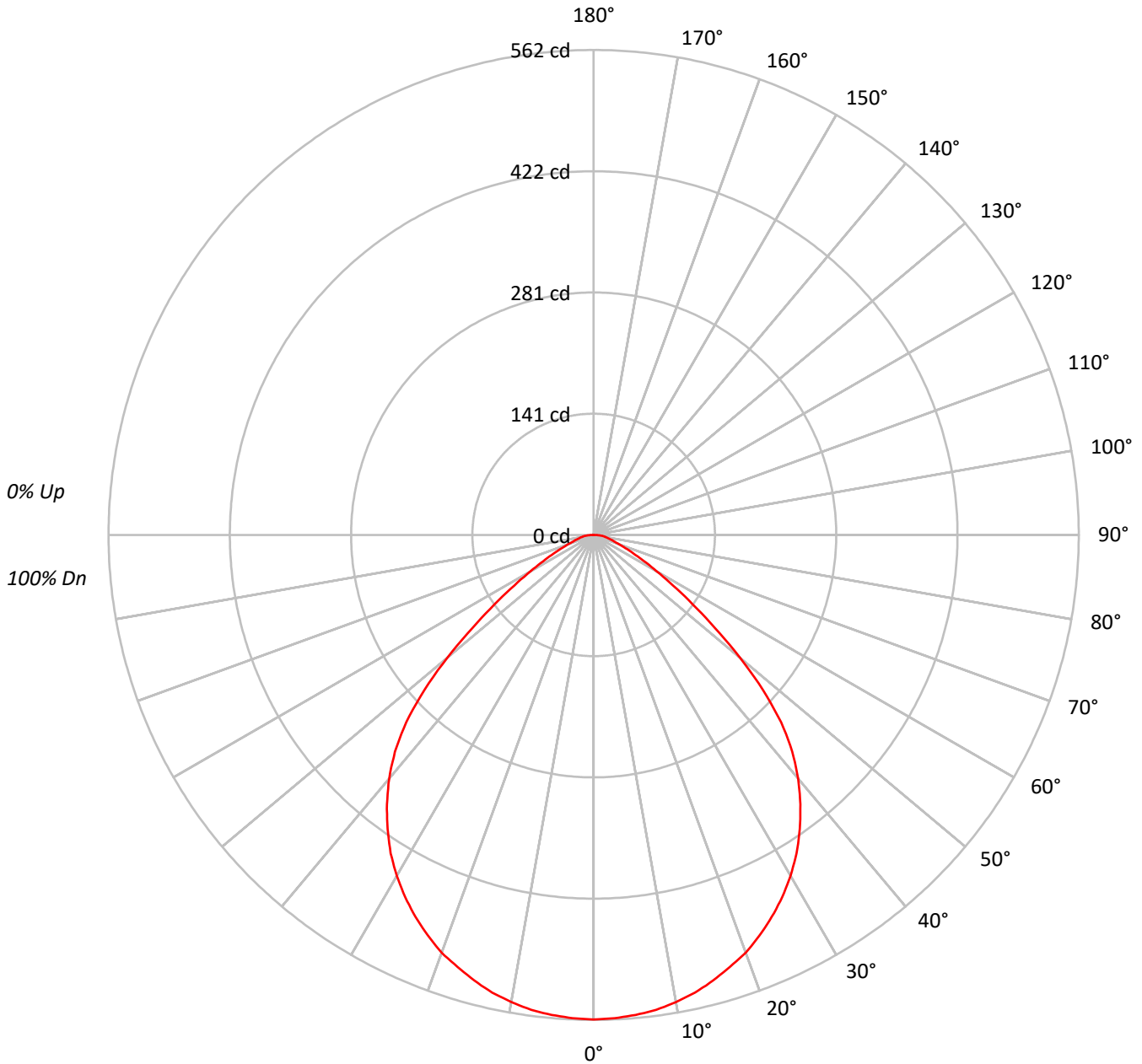
Input Watts (W): 11.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89																			
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	80	78																			
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68																			
4	88	78	71	65	86	77	70	64	75	68	64	72	67	63	70	66	62	60																			
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53																			
6	76	65	57	51	75	64	56	51	62	55	50	60	54	50	59	54	50	48																			
7	71	59	51	46	70	58	51	46	57	50	45	55	49	45	54	49	45	43																			
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39																			
9	62	50	43	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35																			
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	30787
5°	30729
10°	30600
15°	30341
20°	30056
25°	29536
30°	28865
35°	27847
40°	26378
45°	23816
50°	18848
55°	13390
60°	9221
65°	6577
70°	5017
75°	4342
80°	4420
85°	4717

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23816 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.0	4.7
10°-20°	150.8	13.3
20°-30°	224.8	19.8
30°-40°	259.5	22.9
40°-50°	232.5	20.5
50°-60°	128.5	11.3
60°-70°	52.8	4.7
70°-80°	22.5	2.0
80°-90°	8.4	0.7
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°	428.6	37.8
0°-40°	688.2	60.7
0°-60°	1049.2	92.6
0°-90°	1132.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1132.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	562	
5°	558	53
15°	535	151
25°	488	225
35°	416	260
45°	307	232
55°	140	129
65°	51	53
75°	20	22
85°	8	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	561.6
2.5°	560.5
5°	558.4
7.5°	555.1
10°	549.7
12.5°	543.3
15°	534.6
17.5°	524.9
20°	515.2
22.5°	502.3
25°	488.3
27.5°	473.2
30°	456.0
32.5°	437.6
35°	416.1
37.5°	393.4
40°	368.6
42.5°	340.6
45°	307.2
47.5°	266.2
50°	221.0
52.5°	176.8
55°	140.1
57.5°	108.9
60°	84.1
62.5°	65.8
65°	50.7
67.5°	39.9
70°	31.3
72.5°	24.8
75°	20.5
77.5°	17.2
80°	14.0
82.5°	11.9
85°	7.5
87.5°	4.3
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)