

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: P640464

Luminaire Tested: ML5609LSVWFLD2W1E - 692H - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640464
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-107)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSVWFLD2W1E - 692H - 900LM - 3000K
Description: ML56 RR, MILKY OPTIC, 6" HAZE TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

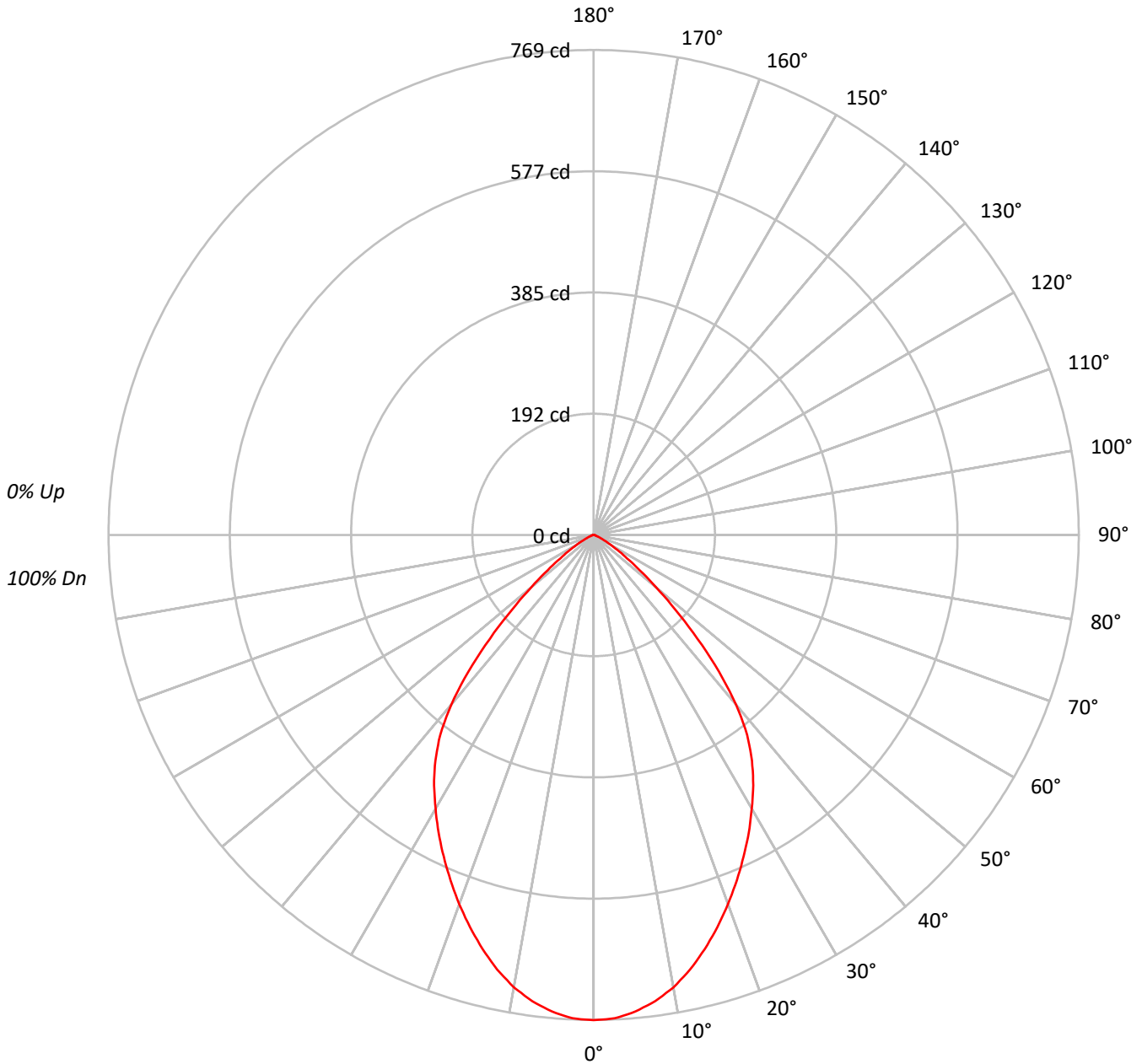
Lumens per Lamp: N/A
Luminaire Lumens: 1050.9 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.1
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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				
1	112	109	106	104	110	107	105	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	87	84	83				
3	99	91	86	81	97	90	85	80	87	83	79	85	81	78	82	79	76	75				
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	67				
5	87	77	70	65	85	76	70	65	74	68	64	72	67	64	71	66	63	61				
6	81	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	57	56				
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51				
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	48	47				
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43				
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	42179
5°	41751
10°	40553
15°	38593
20°	36339
25°	34024
30°	31720
35°	29279
40°	25140
45°	18048
50°	10934
55°	6184
60°	3311
65°	1544
70°	866
75°	678
80°	347
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18048 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.5	6.8
10°-20°	190.8	18.2
20°-30°	258.7	24.6
30°-40°	270.6	25.7
40°-50°	180.1	17.1
50°-60°	61.9	5.9
60°-70°	13.9	1.3
70°-80°	3.1	0.3
80°-90°	0.4	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°	520.9	49.6
0°-40°	791.5	75.3
0°-60°	1033.4	98.3
0°-90°	1050.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1050.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	769	
5°	759	71
15°	680	191
25°	562	259
35°	438	271
45°	233	180
55°	65	62
65°	12	14
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	769.4
2.5°	767.3
5°	758.7
7.5°	745.7
10°	728.5
12.5°	705.9
15°	680.0
17.5°	652.0
20°	622.9
22.5°	592.7
25°	562.5
27.5°	532.4
30°	501.1
32.5°	470.9
35°	437.5
37.5°	399.8
40°	351.3
42.5°	294.2
45°	232.8
47.5°	175.7
50°	128.2
52.5°	91.6
55°	64.7
57.5°	44.2
60°	30.2
62.5°	19.4
65°	11.9
67.5°	7.5
70°	5.4
72.5°	3.2
75°	3.2
77.5°	2.2
80°	1.1
82.5°	1.1
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)