

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: P640451

Luminaire Tested: ML5609LSVWFLD2W1E - 593WB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640451
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-97)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSVWFLD2W1E - 593WB - 900LM - 2700K
Description: ML56 RR, MILKY OPTIC, 5" WHITE BAFFLE TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

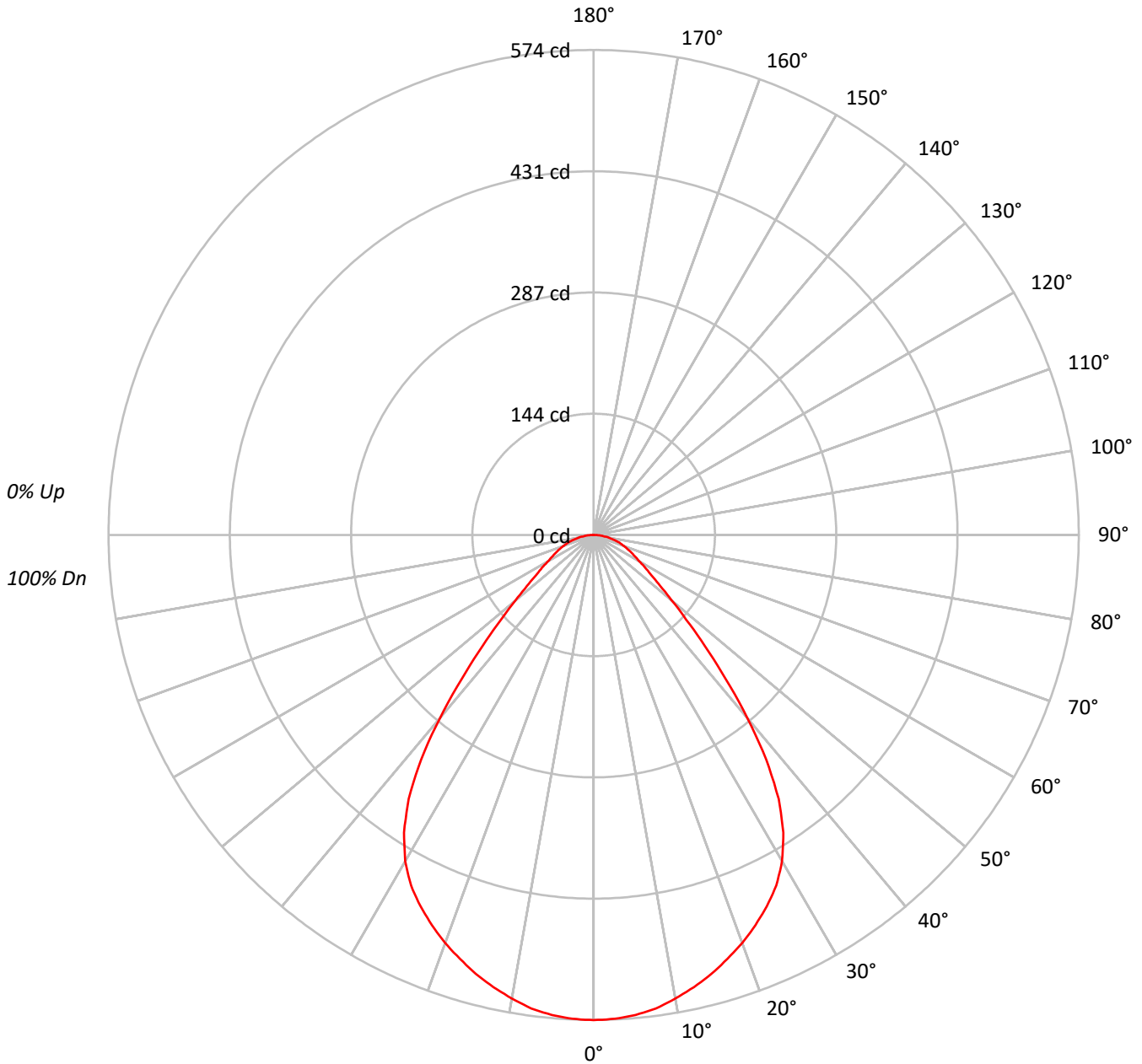
Lumens per Lamp: N/A
Luminaire Lumens: 972.8 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.14
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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									
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	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	86	83	80	78																			
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69																			
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62																			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56																			
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50																			
7	73	61	54	49	72	61	54	48	59	53	48	58	52	48	57	51	48	46																			
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	44	42																			
9	65	53	45	41	63	52	45	41	51	45	40	50	44	40	49	44	40	38																			
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	45336
5°	45192
10°	44664
15°	43977
20°	43180
25°	42236
30°	40636
35°	36765
40°	29173
45°	20731
50°	14799
55°	11465
60°	9820
65°	9190
70°	8817
75°	8571
80°	8228
85°	7246

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20731 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.0	5.6
10°-20°	151.6	15.6
20°-30°	222.7	22.9
30°-40°	233.4	24.0
40°-50°	146.8	15.1
50°-60°	77.2	7.9
60°-70°	48.9	5.0
70°-80°	29.4	3.0
80°-90°	8.7	0.9
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°	428.4	44.0
0°-40°	661.8	68.0
0°-60°	885.7	91.1
0°-90°	972.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	972.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	574	
5°	570	54
15°	538	152
25°	485	223
35°	382	233
45°	186	147
55°	83	77
65°	49	49
75°	28	29
85°	8	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	574.3
2.5°	573.3
5°	570.3
7.5°	565.3
10°	557.2
12.5°	548.2
15°	538.1
17.5°	526.1
20°	514.0
22.5°	500.0
25°	484.9
27.5°	467.9
30°	445.8
32.5°	417.7
35°	381.5
37.5°	335.3
40°	283.1
42.5°	230.9
45°	185.7
47.5°	148.6
50°	120.5
52.5°	99.4
55°	83.3
57.5°	72.3
60°	62.2
62.5°	55.2
65°	49.2
67.5°	43.2
70°	38.2
72.5°	33.1
75°	28.1
77.5°	22.1
80°	18.1
82.5°	12.0
85°	8.0
87.5°	3.0
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)