

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: P640439

Luminaire Tested: ML5609LSVWFLD2W1E - 592H - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640439
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-95)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSVWFLD2W1E - 592H - 900LM - 2700K
Description: ML56 RR, MILKY OPTIC, 5" HAZE TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

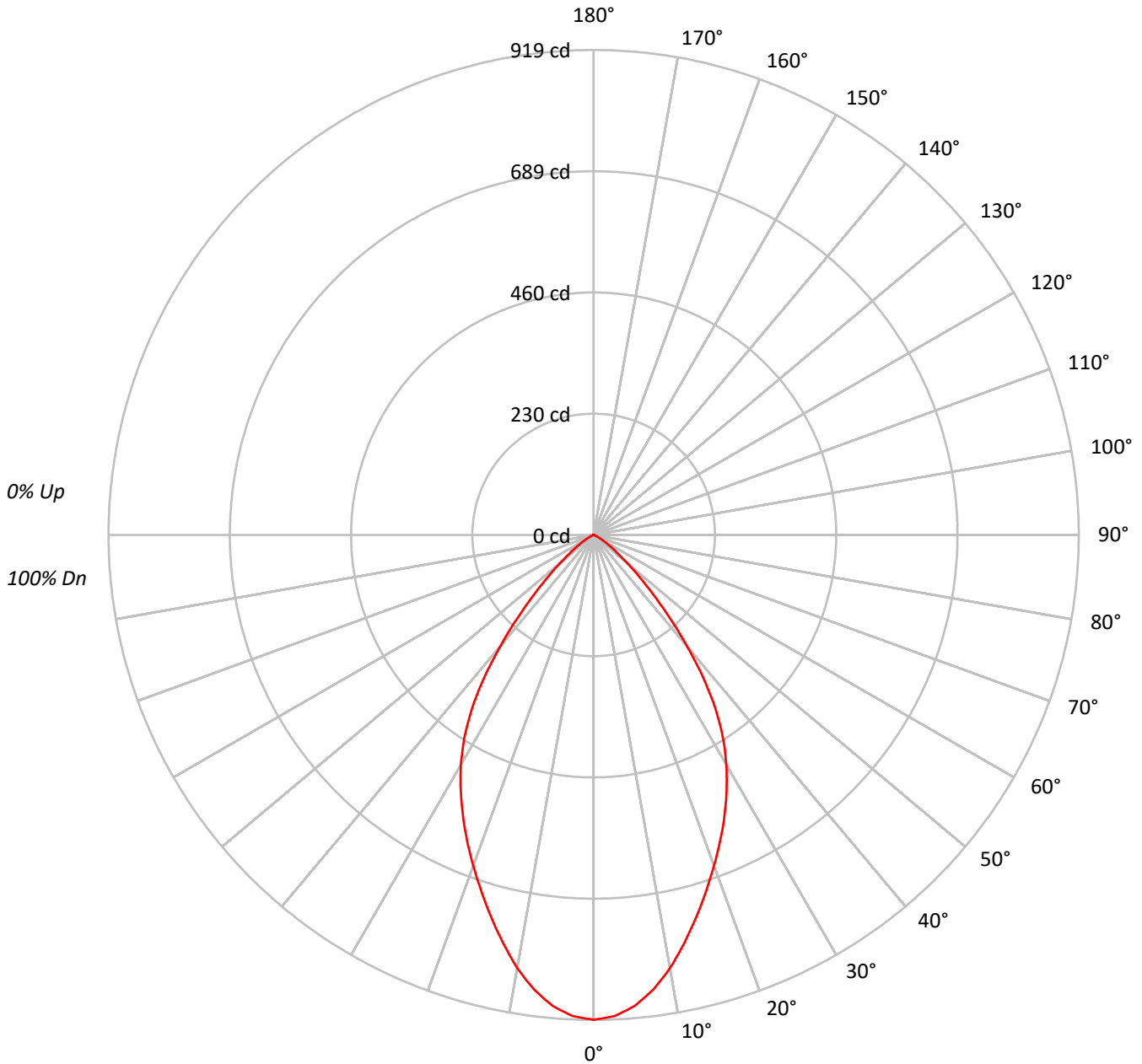
Lumens per Lamp: N/A
Luminaire Lumens: 984.5 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.97
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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				100															
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92				92															
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84				84															
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77				77															
4	95	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	71				71															
5	89	80	73	68	87	79	73	68	77	72	68	75	71	67	74	70	66	65				65															
6	84	74	67	63	82	73	67	62	72	66	62	70	65	62	69	64	61	60				60															
7	79	69	62	58	78	68	62	57	67	61	57	66	61	57	64	60	56	55				55															
8	75	64	58	53	73	64	57	53	63	57	53	61	56	53	60	56	52	51				51															
9	71	60	54	49	70	60	53	49	59	53	49	58	53	49	57	52	49	47				47															
10	67	56	50	46	66	56	50	46	55	50	46	54	49	46	54	49	45	44				44															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	72531
5°	70977
10°	66812
15°	61302
20°	56016
25°	51076
30°	45859
35°	38808
40°	28349
45°	17717
50°	10107
55°	5533
60°	2858
65°	1308
70°	692
75°	305
80°	455
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17717 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.5	8.5
10°-20°	210.2	21.4
20°-30°	268.9	27.3
30°-40°	246.6	25.0
40°-50°	126.9	12.9
50°-60°	38.6	3.9
60°-70°	8.0	0.8
70°-80°	1.6	0.2
80°-90°	0.1	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°	562.7	57.2
0°-40°	809.3	82.2
0°-60°	974.8	99.0
0°-90°	984.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	984.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	919	
5°	896	84
15°	750	210
25°	586	269
35°	403	247
45°	159	127
55°	40	39
65°	7	8
75°	1	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	918.8
2.5°	912.8
5°	895.7
7.5°	868.6
10°	833.5
12.5°	792.3
15°	750.1
17.5°	707.9
20°	666.8
22.5°	626.6
25°	586.4
27.5°	545.3
30°	503.1
32.5°	455.9
35°	402.7
37.5°	340.4
40°	275.1
42.5°	212.9
45°	158.7
47.5°	115.5
50°	82.3
52.5°	57.2
55°	40.2
57.5°	27.1
60°	18.1
62.5°	11.0
65°	7.0
67.5°	4.0
70°	3.0
72.5°	2.0
75°	1.0
77.5°	1.0
80°	1.0
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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