

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: P641766

Luminaire Tested: ML5612LSVWFL97FS1E - 691WB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641766
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: ML5612LSVWFL97FS1E - 691WB - 900LM - 2700K
Description: ML56 RR, MILKY OPTIC, 6" DEADFRONT TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

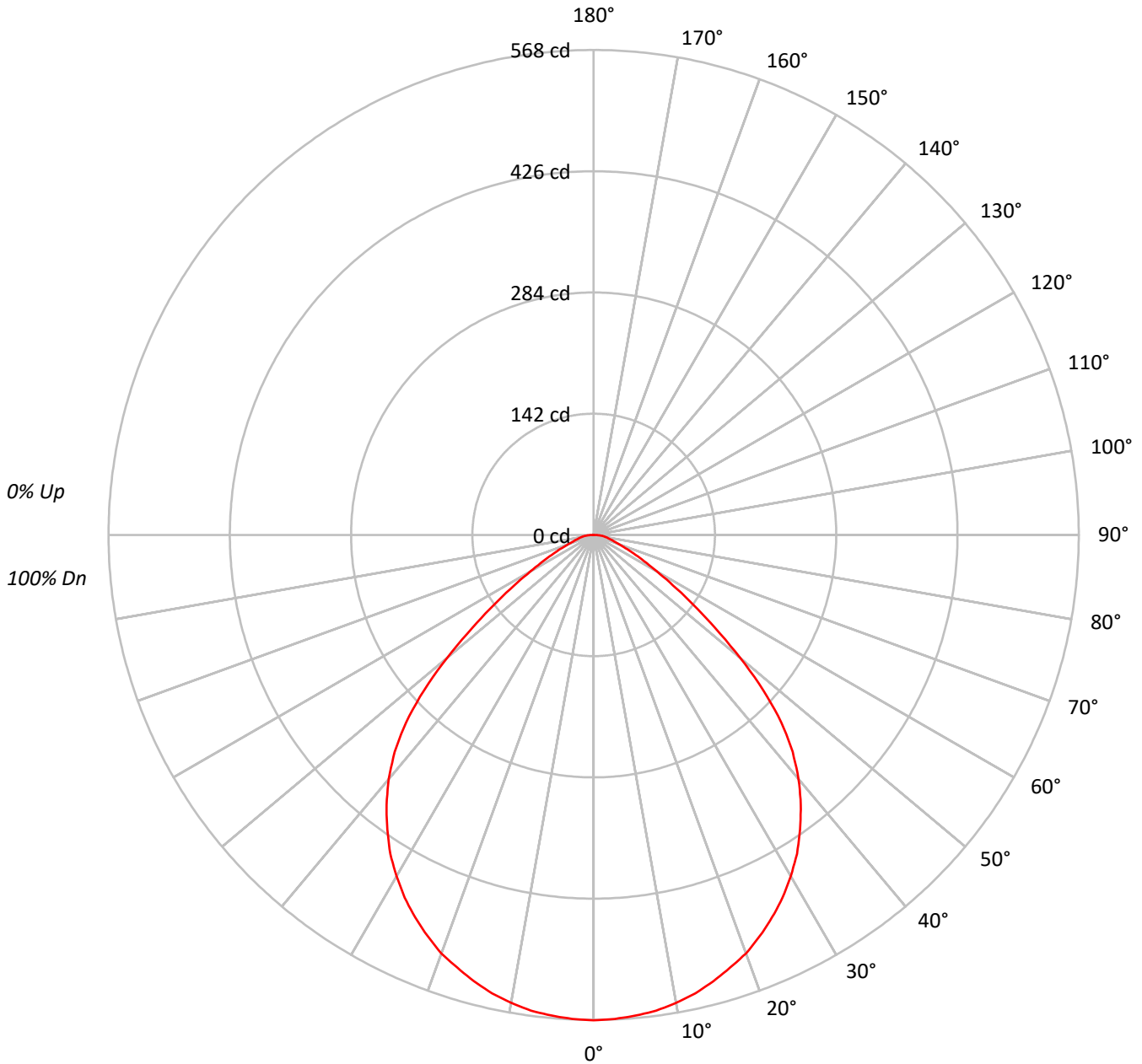
Lumens per Lamp: N/A
Luminaire Lumens: 1146.7 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.28
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 13.3
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				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				100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89				89
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	80	78				78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68				68
4	88	78	71	65	86	77	70	64	75	68	64	72	67	63	70	66	62	60				60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53				53
6	76	65	57	51	75	64	56	51	62	55	50	60	54	50	59	54	50	48				48
7	71	59	51	46	70	58	51	46	57	50	45	55	49	45	54	49	45	43				43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39				39
9	62	50	43	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35				35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32				32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	31165
5°	31103
10°	30978
15°	30715
20°	30429
25°	29899
30°	29213
35°	28188
40°	26707
45°	24111
50°	19078
55°	13553
60°	9330
65°	6654
70°	5065
75°	4384
80°	4483
85°	4780

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 24111 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.7	4.7
10°-20°	152.7	13.3
20°-30°	227.5	19.8
30°-40°	262.7	22.9
40°-50°	235.4	20.5
50°-60°	130.1	11.3
60°-70°	53.4	4.7
70°-80°	22.7	2.0
80°-90°	8.5	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°	433.9	37.8
0°-40°	696.6	60.8
0°-60°	1062.1	92.6
0°-90°	1146.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1146.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	568	
5°	565	54
15°	541	153
25°	494	228
35°	421	263
45°	311	235
55°	142	130
65°	51	53
75°	21	23
85°	8	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	568.5
2.5°	567.4
5°	565.2
7.5°	561.9
10°	556.5
12.5°	549.9
15°	541.2
17.5°	531.4
20°	521.6
22.5°	508.5
25°	494.3
27.5°	479.0
30°	461.5
32.5°	443.0
35°	421.2
37.5°	398.3
40°	373.2
42.5°	344.8
45°	311.0
47.5°	269.5
50°	223.7
52.5°	178.9
55°	141.8
57.5°	110.2
60°	85.1
62.5°	66.6
65°	51.3
67.5°	40.4
70°	31.6
72.5°	25.1
75°	20.7
77.5°	17.5
80°	14.2
82.5°	12.0
85°	7.6
87.5°	4.4
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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