

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: P641651

Luminaire Tested: ML5612LSVWFL97FS1E - 593SNB - 1200LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641651
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-99)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL97FS1E - 593SNB - 1200LM - 2700K
Description: ML56 RR, MILKY OPTIC, 5" SATIN NICKLE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

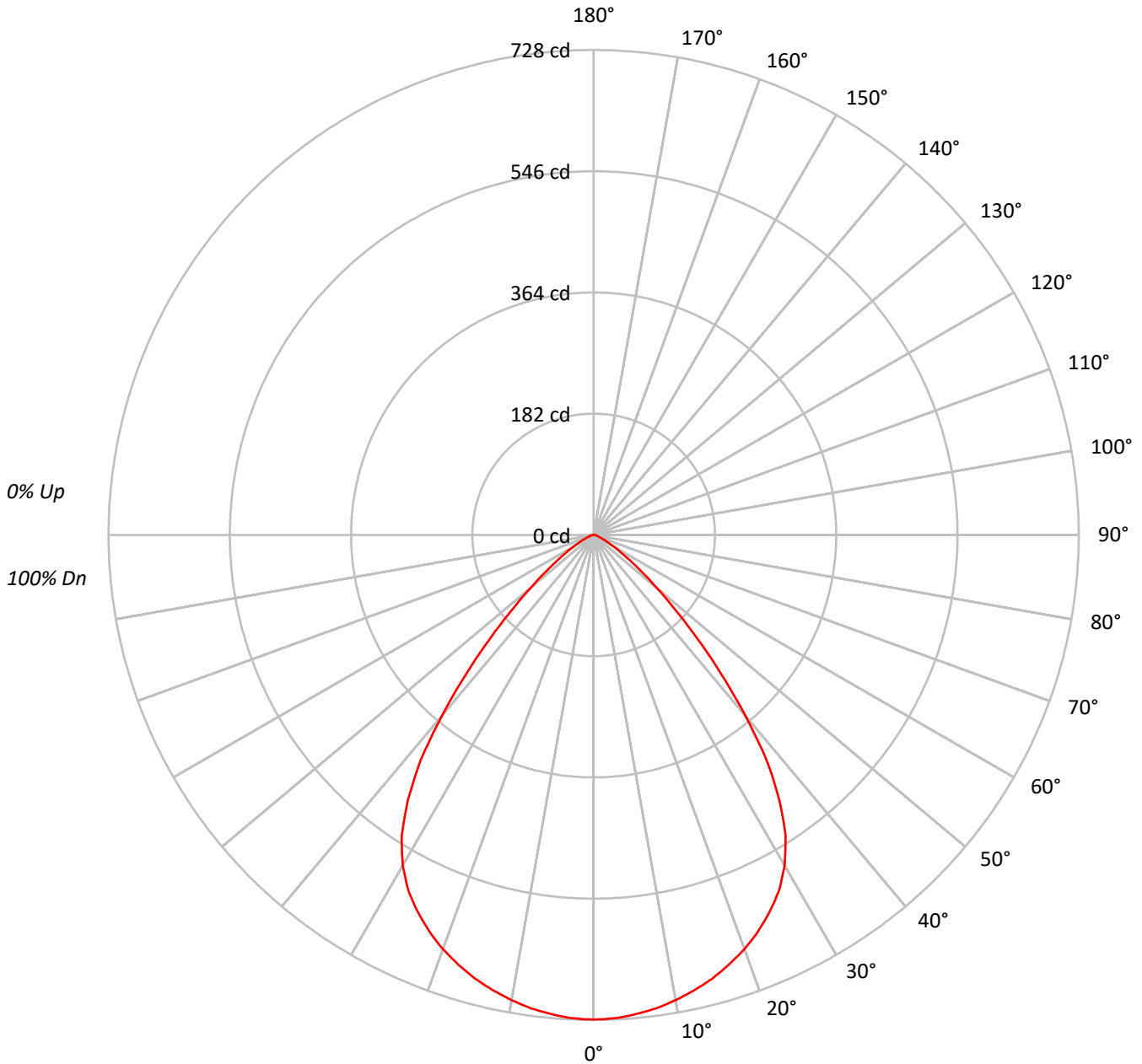
Lumens per Lamp: N/A
Luminaire Lumens: 1107.6 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.14
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 16.5
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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91																			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82																			
3	99	91	85	81	97	90	84	80	87	82	79	84	81	77	82	79	76	74																			
4	93	84	77	72	91	82	76	72	80	75	71	78	73	70	76	72	69	67																			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61																			
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55																			
7	76	65	58	53	75	65	58	53	63	57	53	62	57	53	61	56	52	51																			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46																			
9	68	56	50	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43																			
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	57437
5°	57237
10°	56841
15°	56333
20°	55579
25°	54404
30°	52240
35°	46826
40°	36469
45°	24471
50°	15081
55°	9084
60°	5415
65°	3213
70°	1823
75°	1617
80°	1182
85°	1177

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 24471 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.5	6.2
10°-20°	194.2	17.5
20°-30°	286.8	25.9
30°-40°	297.6	26.9
40°-50°	172.8	15.6
50°-60°	62.8	5.7
60°-70°	18.2	1.6
70°-80°	5.6	0.5
80°-90°	1.1	0.1
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°	549.6	49.6
0°-40°	847.2	76.5
0°-60°	1082.7	97.8
0°-90°	1107.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1107.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	728	
5°	722	69
15°	689	194
25°	625	287
35°	486	298
45°	219	173
55°	66	63
65°	17	18
75°	5	6
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	727.6
2.5°	726.3
5°	722.3
7.5°	717.0
10°	709.1
12.5°	699.9
15°	689.3
17.5°	676.1
20°	661.6
22.5°	644.4
25°	624.6
27.5°	602.1
30°	573.1
32.5°	536.1
35°	485.9
37.5°	426.5
40°	353.9
42.5°	282.6
45°	219.2
47.5°	165.1
50°	122.8
52.5°	91.1
55°	66.0
57.5°	47.5
60°	34.3
62.5°	23.8
65°	17.2
67.5°	11.9
70°	7.9
72.5°	6.6
75°	5.3
77.5°	4.0
80°	2.6
82.5°	1.3
85°	1.3
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)