

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: P641743

Luminaire Tested: ML5612LSVWFL97FS1E - 596WB - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641743
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-104)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL97FS1E - 596WB - 1200LM - 3500K
Description: ML56 RR, MILKY OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

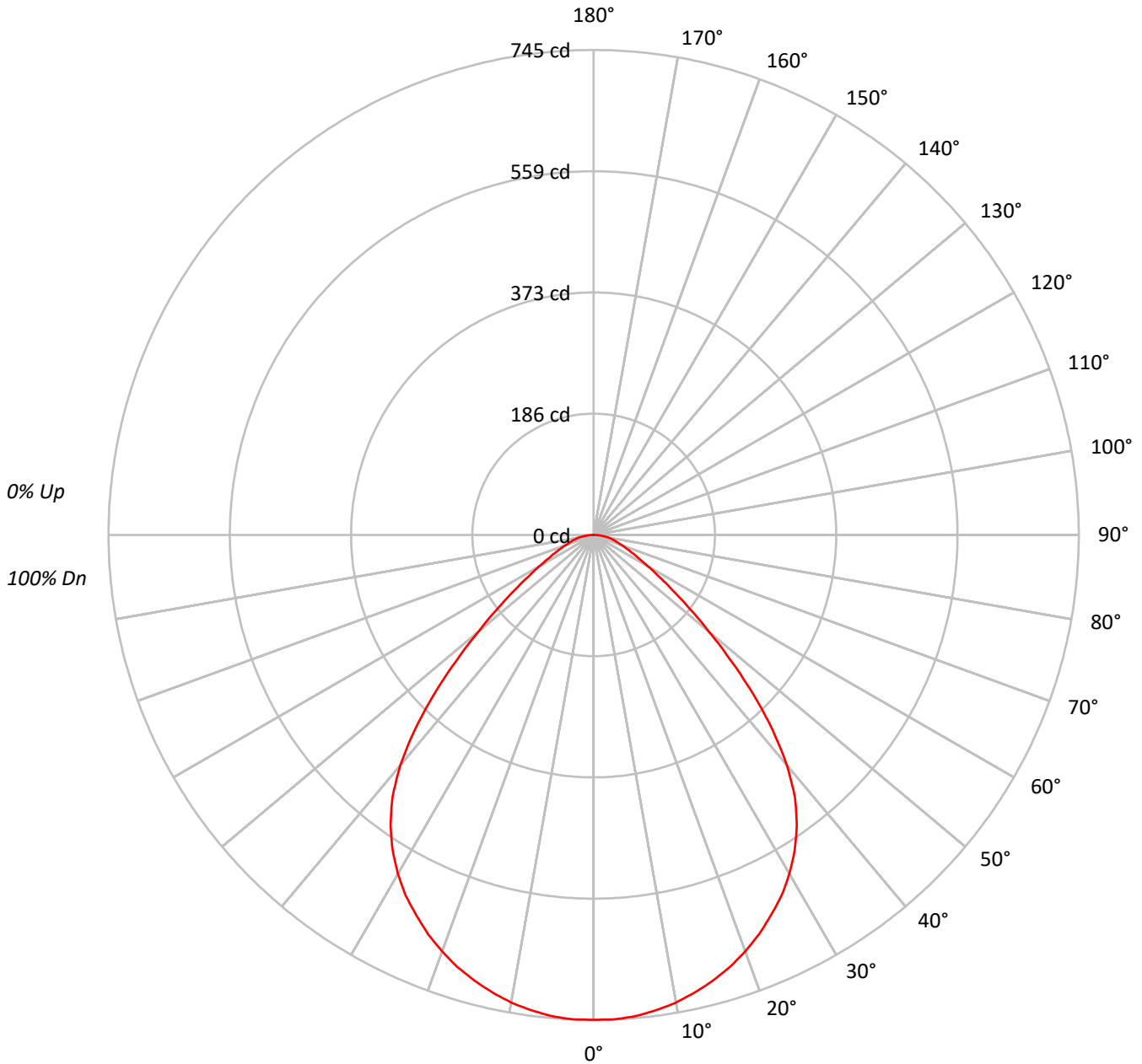
Lumens per Lamp: N/A
Luminaire Lumens: 1420.6 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.24
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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				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	111	107	104	101	109	105	102	99	101	98	96	97	95	93	94	92	91	89			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78			
3	96	87	80	75	93	85	79	74	83	77	73	80	76	72	78	74	71	69			
4	89	79	71	66	87	77	71	65	75	69	64	73	68	64	71	66	63	61			
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54			
6	77	65	58	52	75	64	57	52	63	56	51	61	55	51	60	55	51	49			
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44			
8	67	55	48	42	66	55	47	42	53	47	42	52	46	42	51	46	42	40			
9	63	51	44	39	62	50	43	39	49	43	38	48	42	38	47	42	38	36			
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	58795
5°	58798
10°	58468
15°	57903
20°	57175
25°	56128
30°	54792
35°	52415
40°	47578
45°	38772
50°	28431
55°	20342
60°	15188
65°	12253
70°	10617
75°	10218
80°	10138
85°	8876

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 38772 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.4	5.0
10°-20°	199.8	14.1
20°-30°	296.8	20.9
30°-40°	337.2	23.7
40°-50°	266.1	18.7
50°-60°	136.9	9.6
60°-70°	66.5	4.7
70°-80°	35.5	2.5
80°-90°	11.4	0.8
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°	567.0	39.9
0°-40°	904.2	63.6
0°-60°	1307.2	92.0
0°-90°	1420.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1420.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	745	
5°	742	70
15°	708	200
25°	644	297
35°	544	337
45°	347	266
55°	148	137
65°	66	66
75°	34	36
85°	10	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	744.8
2.5°	744.8
5°	742.0
7.5°	736.4
10°	729.4
12.5°	719.7
15°	708.5
17.5°	696.0
20°	680.6
22.5°	663.9
25°	644.4
27.5°	624.8
30°	601.1
32.5°	574.6
35°	543.9
37.5°	507.7
40°	461.7
42.5°	407.3
45°	347.3
47.5°	285.9
50°	231.5
52.5°	185.5
55°	147.8
57.5°	118.6
60°	96.2
62.5°	78.1
65°	65.6
67.5°	54.4
70°	46.0
72.5°	39.1
75°	33.5
77.5°	27.9
80°	22.3
82.5°	16.7
85°	9.8
87.5°	4.2
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)