

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: P641862

Luminaire Tested: ML5612LSVWFL97FS1E - 693WB - 1200LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641862
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-109)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL97FS1E - 693WB - 1200LM - 3000K
Description: ML56 RR, MILKY OPTIC, 6" WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

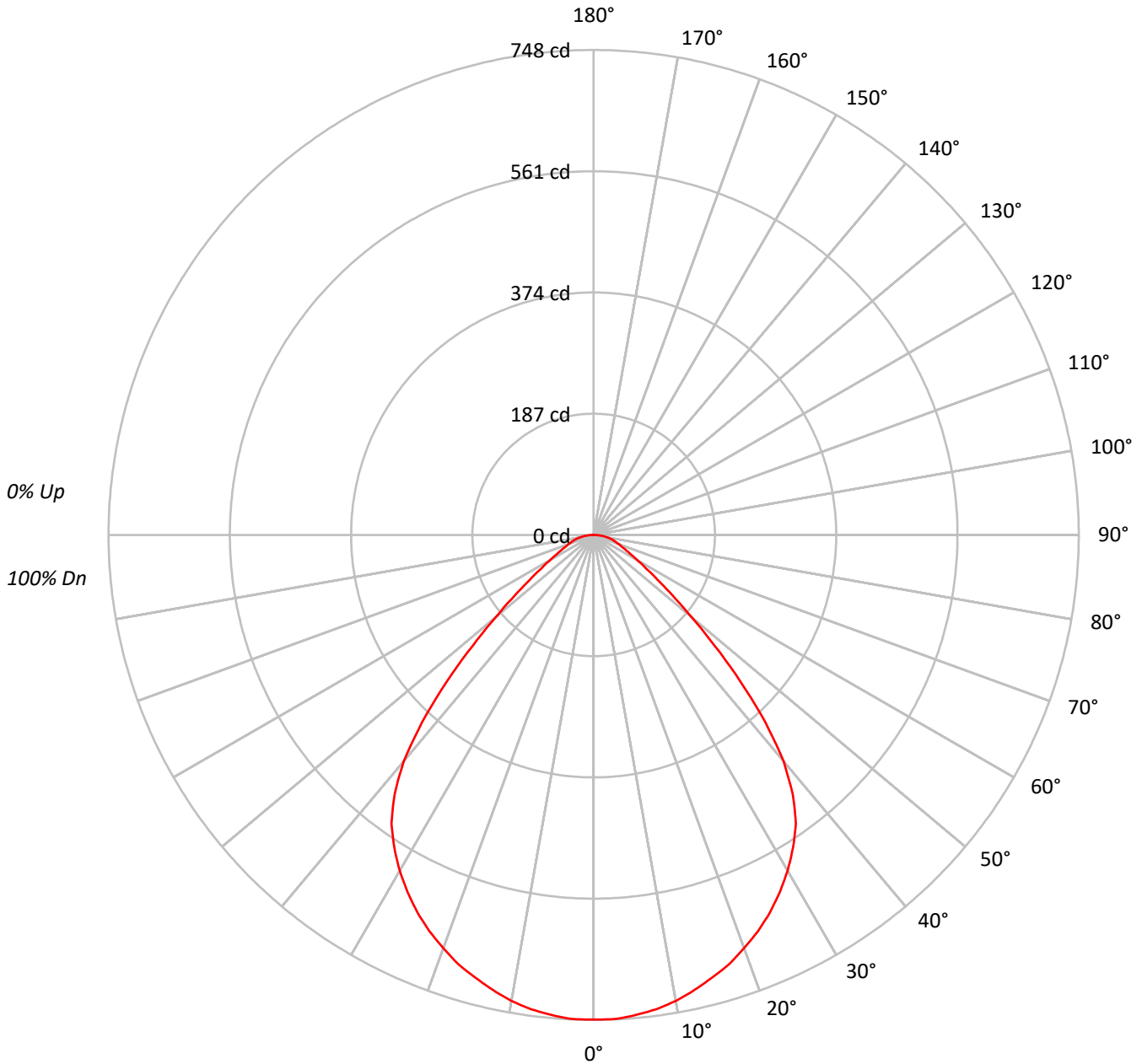
Lumens per Lamp: N/A
Luminaire Lumens: 1358.5 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89																			
2	103	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	79																			
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	70																			
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62																			
5	83	73	65	59	81	71	64	59	70	63	58	68	62	58	66	61	57	56																			
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50																			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45																			
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41																			
9	64	52	45	40	63	52	45	40	50	44	40	49	44	39	48	43	39	38																			
10	60	48	41	37	59	48	41	36	47	41	36	46	40	36	45	40	36	34																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	40978
5°	40909
10°	40625
15°	40108
20°	39559
25°	38881
30°	37854
35°	36379
40°	32582
45°	24863
50°	16690
55°	11431
60°	8497
65°	7057
70°	6540
75°	6630
80°	6440
85°	5975

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 24863 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	5.2
10°-20°	199.4	14.7
20°-30°	295.6	21.8
30°-40°	335.4	24.7
40°-50°	247.0	18.2
50°-60°	111.9	8.2
60°-70°	55.3	4.1
70°-80°	32.5	2.4
80°-90°	10.9	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°	565.5	41.6
0°-40°	900.9	66.3
0°-60°	1259.9	92.7
0°-90°	1358.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1358.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	748	
5°	743	71
15°	707	199
25°	643	296
35°	544	335
45°	321	247
55°	120	112
65°	54	55
75°	31	32
85°	10	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	747.5
2.5°	747.5
5°	743.4
7.5°	737.9
10°	729.8
12.5°	718.9
15°	706.7
17.5°	694.5
20°	678.1
22.5°	661.8
25°	642.8
27.5°	621.1
30°	598.0
32.5°	572.1
35°	543.6
37.5°	504.2
40°	455.3
42.5°	391.4
45°	320.7
47.5°	252.8
50°	195.7
52.5°	152.2
55°	119.6
57.5°	95.1
60°	77.5
62.5°	63.9
65°	54.4
67.5°	46.2
70°	40.8
72.5°	35.3
75°	31.3
77.5°	25.8
80°	20.4
82.5°	16.3
85°	9.5
87.5°	4.1
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)