

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: P641873

Luminaire Tested: ML5612LSVWFL97FS1E - 693WB - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641873
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 - 900LM - 3500K
Description: ML56 RR, MILKY OPTIC, 6" WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

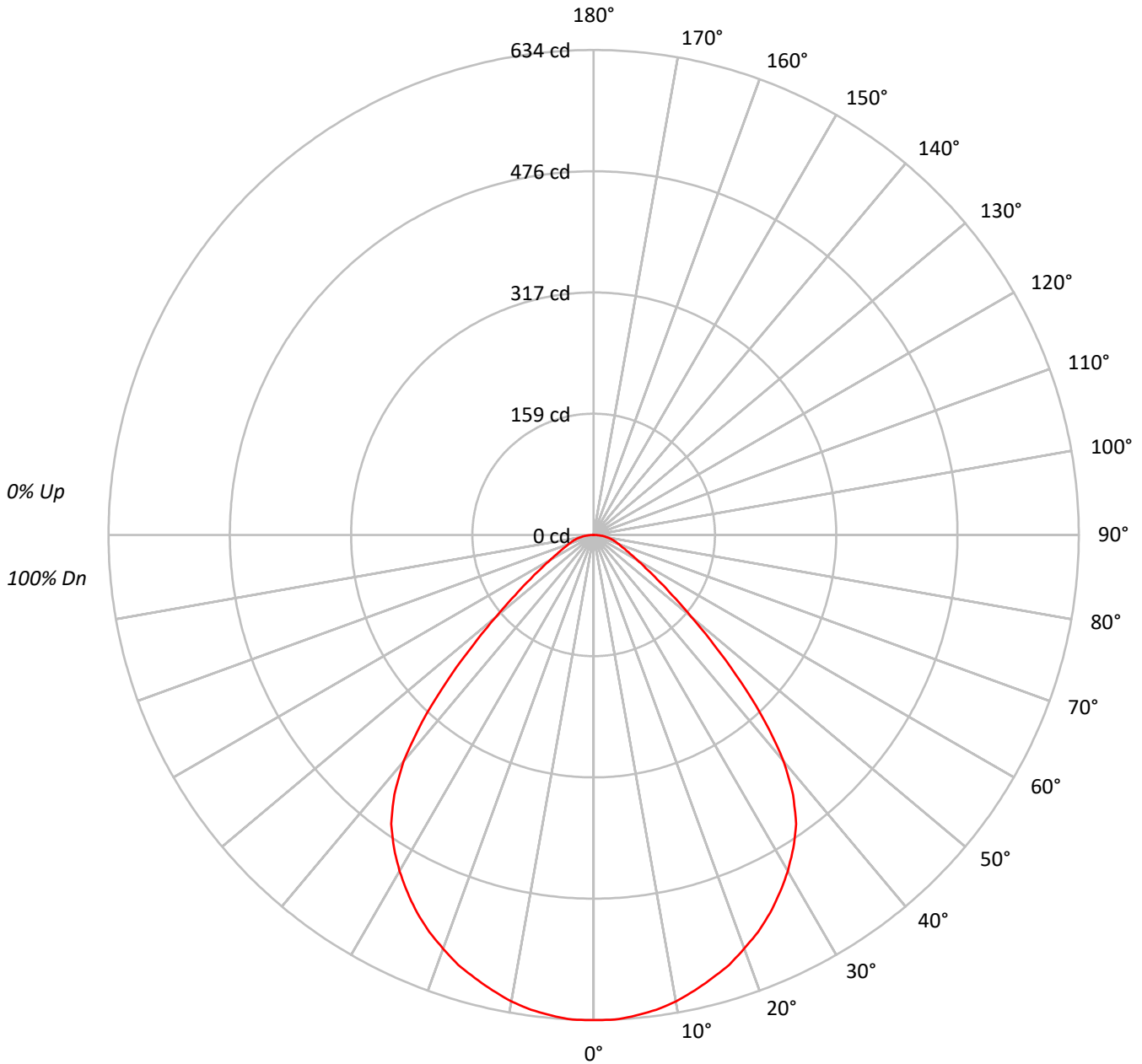
Lumens per Lamp: N/A
Luminaire Lumens: 1152.7 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 13.3
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	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89			89																
2	103	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	79			79																
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	70			70																
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62			62																
5	83	73	65	59	81	71	64	59	70	63	58	68	62	58	66	61	57	56			56																
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50			50																
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45			45																
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41			41																
9	64	52	45	40	63	52	45	40	50	44	40	49	44	39	48	43	39	38			38																
10	60	48	41	37	59	48	41	36	47	41	36	46	40	36	45	40	36	34			34																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	34772
5°	34713
10°	34474
15°	34035
20°	33568
25°	32996
30°	32119
35°	30872
40°	27645
45°	21103
50°	14166
55°	9701
60°	7203
65°	5980
70°	5546
75°	5613
80°	5462
85°	5095

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21103 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.9	5.2
10°-20°	169.2	14.7
20°-30°	250.8	21.8
30°-40°	284.6	24.7
40°-50°	209.6	18.2
50°-60°	95.0	8.2
60°-70°	46.9	4.1
70°-80°	27.5	2.4
80°-90°	9.3	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°	479.9	41.6
0°-40°	764.5	66.3
0°-60°	1069.1	92.7
0°-90°	1152.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1152.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	634	
5°	631	60
15°	600	169
25°	546	251
35°	461	285
45°	272	210
55°	102	95
65°	46	47
75°	26	28
85°	8	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	634.3
2.5°	634.3
5°	630.8
7.5°	626.2
10°	619.3
12.5°	610.0
15°	599.7
17.5°	589.3
20°	575.4
22.5°	561.6
25°	545.5
27.5°	527.0
30°	507.4
32.5°	485.5
35°	461.3
37.5°	427.8
40°	386.3
42.5°	332.1
45°	272.2
47.5°	214.5
50°	166.1
52.5°	129.2
55°	101.5
57.5°	80.7
60°	65.7
62.5°	54.2
65°	46.1
67.5°	39.2
70°	34.6
72.5°	30.0
75°	26.5
77.5°	21.9
80°	17.3
82.5°	13.8
85°	8.1
87.5°	3.5
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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