

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: P641875

Luminaire Tested: ML5612LSVWFL97FS1E - 693WB - 900LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641875
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 - 5000K
Description: ML56 RR, MILKY OPTIC, 6" WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

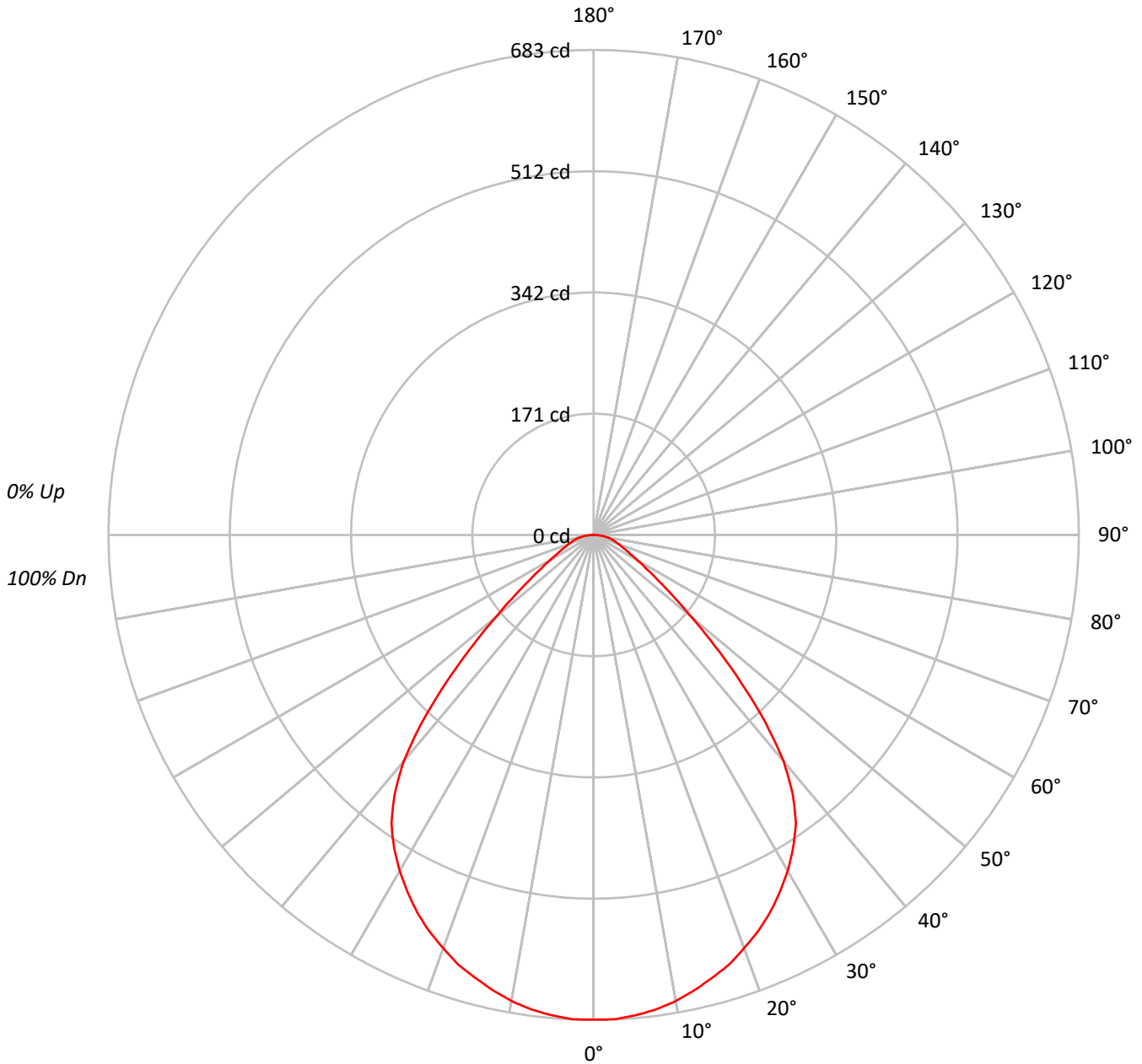
Lumens per Lamp: N/A
Luminaire Lumens: 1240.8 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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				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	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°	37426
5°	37365
10°	37107
15°	36635
20°	36135
25°	35512
30°	34575
35°	33227
40°	29756
45°	22708
50°	15240
55°	10437
60°	7763
65°	6447
70°	5963
75°	6037
80°	5872
85°	5472

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22708 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.4	5.2
10°-20°	182.1	14.7
20°-30°	270.0	21.8
30°-40°	306.3	24.7
40°-50°	225.6	18.2
50°-60°	102.2	8.2
60°-70°	50.5	4.1
70°-80°	29.6	2.4
80°-90°	10.0	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°	516.5	41.6
0°-40°	822.9	66.3
0°-60°	1150.7	92.7
0°-90°	1240.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1240.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	683	
5°	679	64
15°	646	182
25°	587	270
35°	496	306
45°	293	226
55°	109	102
65°	50	50
75°	28	30
85°	9	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	682.7
2.5°	682.7
5°	679.0
7.5°	674.0
10°	666.6
12.5°	656.6
15°	645.5
17.5°	634.3
20°	619.4
22.5°	604.5
25°	587.1
27.5°	567.3
30°	546.2
32.5°	522.6
35°	496.5
37.5°	460.5
40°	415.8
42.5°	357.5
45°	292.9
47.5°	230.9
50°	178.7
52.5°	139.0
55°	109.2
57.5°	86.9
60°	70.8
62.5°	58.3
65°	49.7
67.5°	42.2
70°	37.2
72.5°	32.3
75°	28.5
77.5°	23.6
80°	18.6
82.5°	14.9
85°	8.7
87.5°	3.7
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)