

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: P641730

Luminaire Tested: ML5612LSVWFL97FS1E - 594WB - 1200LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641730
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-101)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL97FS1E - 594WB - 1200LM - 5000K
Description: ML56 RR, MILKY OPTIC, 5" WHITE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

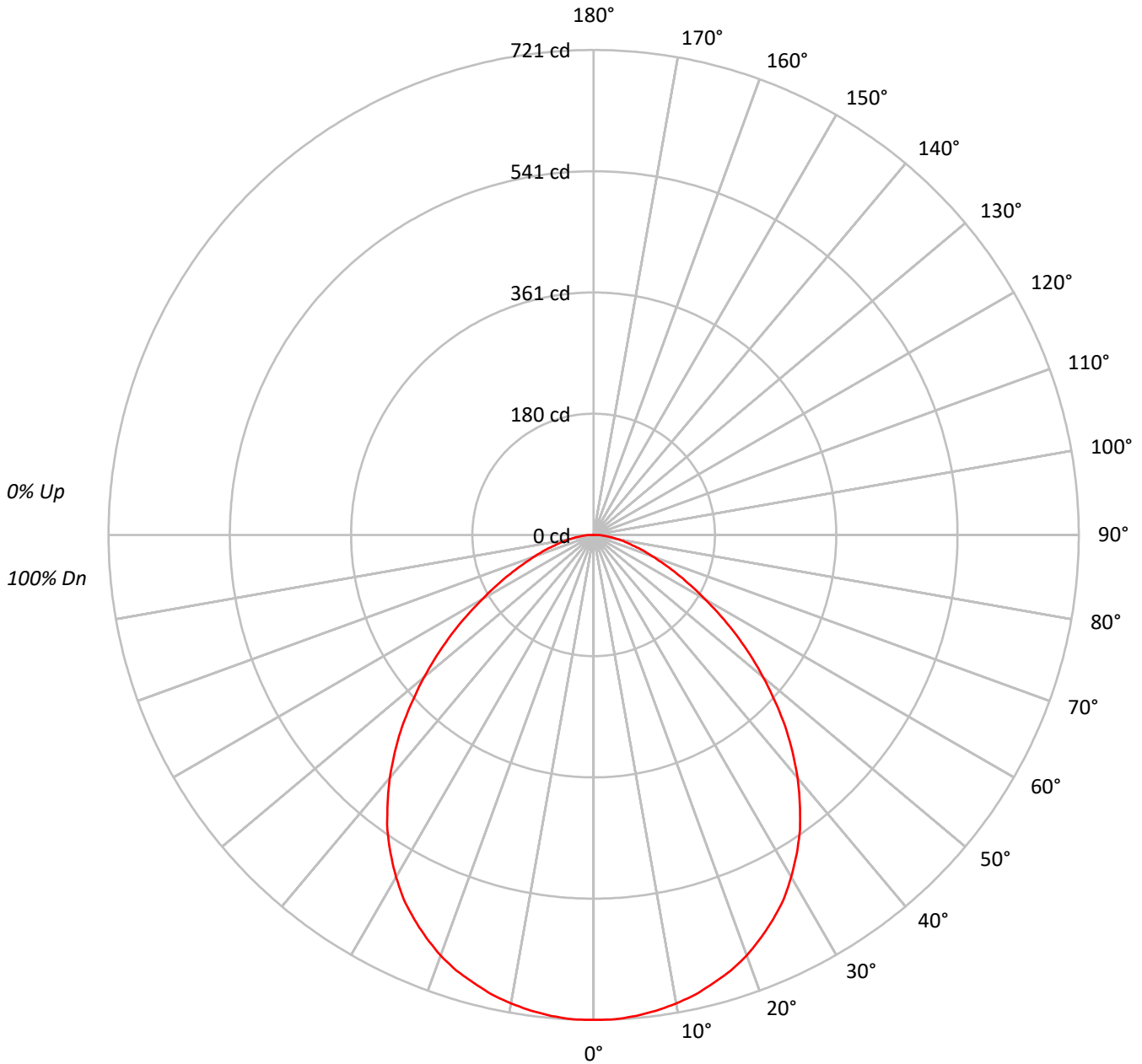
Lumens per Lamp: N/A
Luminaire Lumens: 1647.7 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.28
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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			100
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86			86
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74			74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64			64
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56			56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	60	55	51	49			49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43			43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39			39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35			35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	31			31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	31	40	34	30	29			29

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	56909
5°	56888
10°	56704
15°	56342
20°	55898
25°	54944
30°	53534
35°	51529
40°	48598
45°	44935
50°	40392
55°	35550
60°	30108
65°	25534
70°	21488
75°	18331
80°	16366
85°	14945

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 44935 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.2	4.1
10°-20°	194.6	11.8
20°-30°	290.2	17.6
30°-40°	332.9	20.2
40°-50°	309.2	18.8
50°-60°	230.9	14.0
60°-70°	136.7	8.3
70°-80°	65.7	4.0
80°-90°	19.2	1.2
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°	553.0	33.6
0°-40°	886.0	53.8
0°-60°	1426.1	86.5
0°-90°	1647.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1647.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	721	
5°	718	68
15°	689	195
25°	631	290
35°	535	333
45°	402	309
55°	258	231
65°	137	137
75°	60	66
85°	16	19
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	720.9
2.5°	720.9
5°	717.9
7.5°	713.4
10°	707.4
12.5°	699.9
15°	689.4
17.5°	678.9
20°	665.4
22.5°	648.8
25°	630.8
27.5°	611.3
30°	587.3
32.5°	561.7
35°	534.7
37.5°	503.1
40°	471.6
42.5°	437.1
45°	402.5
47.5°	365.0
50°	328.9
52.5°	292.9
55°	258.3
57.5°	223.8
60°	190.7
62.5°	162.2
65°	136.7
67.5°	112.6
70°	93.1
72.5°	76.6
75°	60.1
77.5°	48.1
80°	36.0
82.5°	25.5
85°	16.5
87.5°	10.5
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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(END OF REPORT)