

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: P641880

Luminaire Tested: ML5612LSVWFL97FS1E - 694TBZB - 1200LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641880
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-114)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL97FS1E - 694TBZB - 1200LM - 5000K
Description: ML56 RR, MILKY OPTIC, 6" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

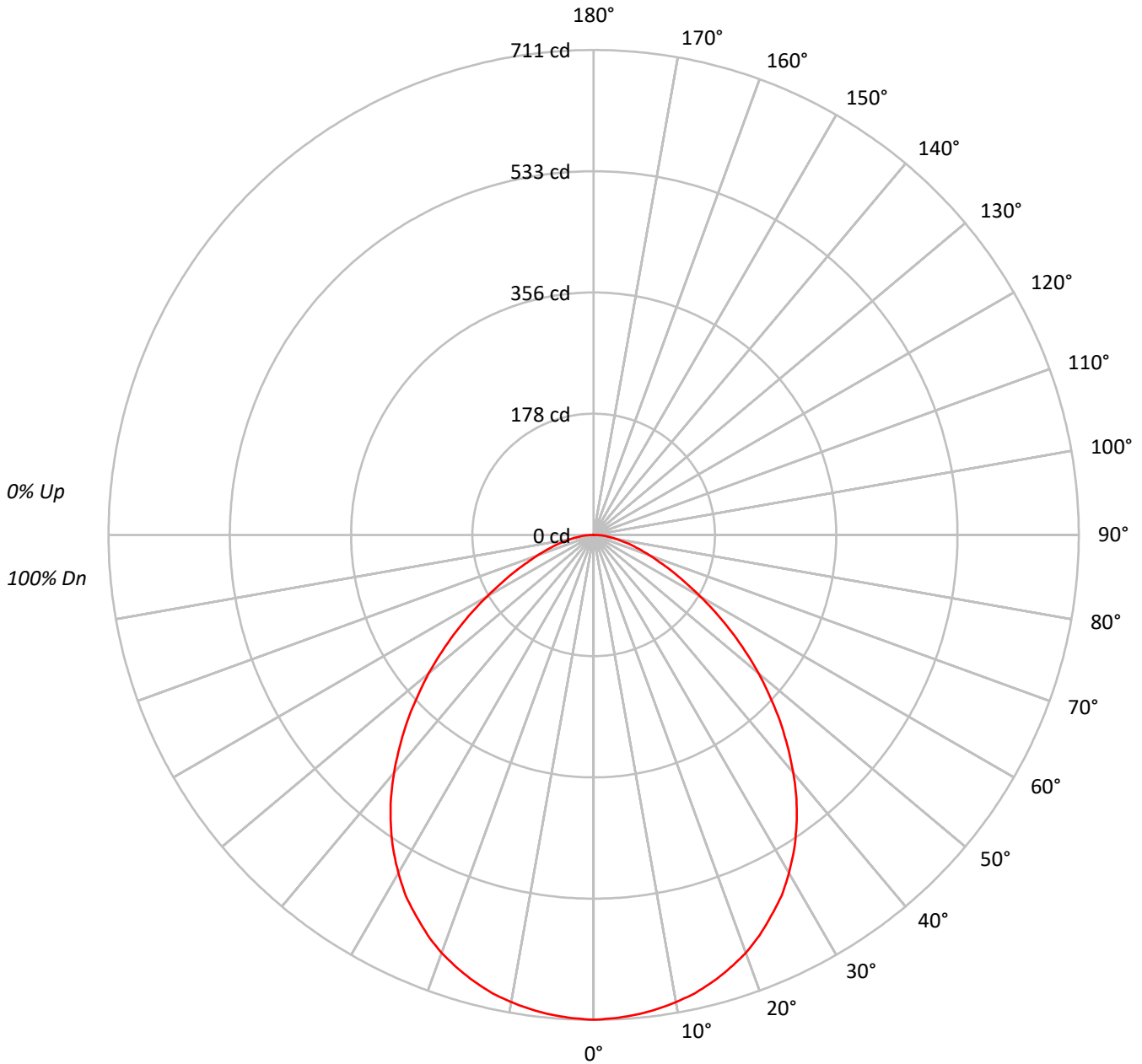
Lumens per Lamp: N/A
Luminaire Lumens: 1589.1 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.27
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 16.5
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	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87			87
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	82	79	76	74			74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64			64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56			56
5	80	68	59	53	78	67	59	53	64	58	52	63	57	52	61	56	51	49			49
6	74	61	53	47	72	60	53	47	59	52	46	57	51	46	56	50	46	44			44
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39			39
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35			35
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32			32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29			29

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	38961
5°	38862
10°	38721
15°	38457
20°	38042
25°	37260
30°	36233
35°	34693
40°	32575
45°	29933
50°	26907
55°	23407
60°	19768
65°	16565
70°	13961
75°	12094
80°	10450
85°	10378

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 29933 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	4.2
10°-20°	191.1	12.0
20°-30°	283.6	17.8
30°-40°	323.3	20.3
40°-50°	297.1	18.7
50°-60°	219.6	13.8
60°-70°	128.0	8.1
70°-80°	61.0	3.8
80°-90°	18.4	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°	541.8	34.1
0°-40°	865.0	54.4
0°-60°	1381.7	86.9
0°-90°	1589.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1589.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	711	
5°	706	67
15°	678	191
25°	616	284
35°	518	323
45°	386	297
55°	245	220
65°	128	128
75°	57	61
85°	16	18
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	710.7
2.5°	709.2
5°	706.2
7.5°	701.7
10°	695.6
12.5°	688.1
15°	677.6
17.5°	665.6
20°	652.1
22.5°	635.5
25°	616.0
27.5°	596.5
30°	572.4
32.5°	546.9
35°	518.4
37.5°	488.3
40°	455.2
42.5°	420.7
45°	386.1
47.5°	350.1
50°	315.5
52.5°	279.5
55°	244.9
57.5°	211.8
60°	180.3
62.5°	151.7
65°	127.7
67.5°	105.2
70°	87.1
72.5°	70.6
75°	57.1
77.5°	43.6
80°	33.1
82.5°	24.0
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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