

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: P641881

Luminaire Tested: ML5612LSVWFL97FS1E - 694TBZB - 600LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641881
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 - 600LM - 2700K
Description: ML56 RR, MILKY OPTIC, 6" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 899.7 lumens
Efficiency: N/A
Efficacy: 87.3 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

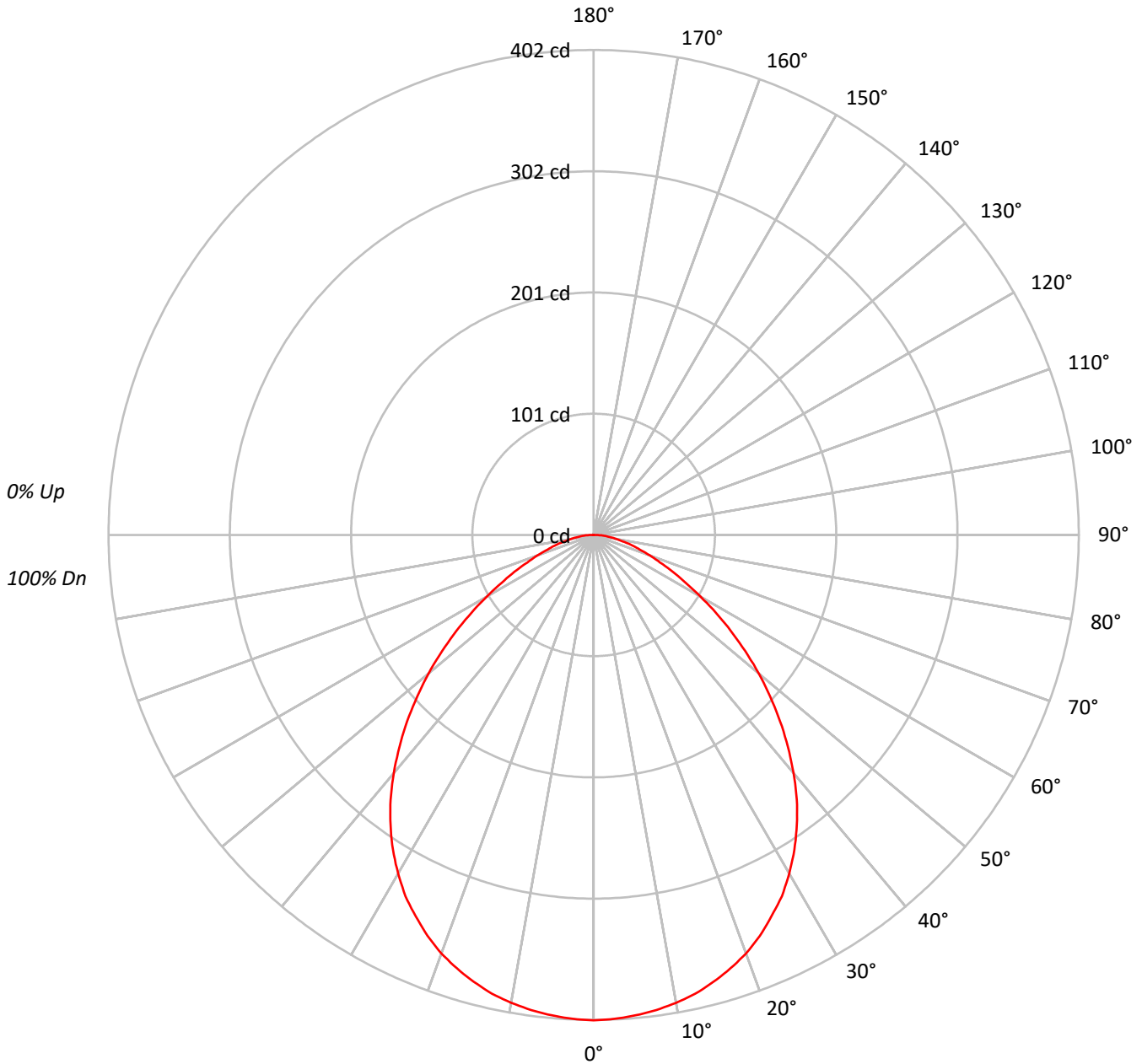
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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°	22060
5°	22001
10°	21921
15°	21771
20°	21539
25°	21098
30°	20516
35°	19642
40°	18442
45°	16947
50°	15232
55°	13256
60°	11194
65°	9378
70°	7902
75°	6841
80°	5904
85°	5913

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16947 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.0	4.2
10°-20°	108.2	12.0
20°-30°	160.6	17.8
30°-40°	183.0	20.3
40°-50°	168.2	18.7
50°-60°	124.3	13.8
60°-70°	72.5	8.1
70°-80°	34.5	3.8
80°-90°	10.4	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°	306.7	34.1
0°-40°	489.7	54.4
0°-60°	782.3	86.9
0°-90°	899.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	899.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	402	
5°	400	38
15°	384	108
25°	349	161
35°	294	183
45°	219	168
55°	139	124
65°	72	72
75°	32	35
85°	9	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	402.4
2.5°	401.5
5°	399.8
7.5°	397.3
10°	393.8
12.5°	389.6
15°	383.6
17.5°	376.8
20°	369.2
22.5°	359.8
25°	348.8
27.5°	337.7
30°	324.1
32.5°	309.6
35°	293.5
37.5°	276.5
40°	257.7
42.5°	238.2
45°	218.6
47.5°	198.2
50°	178.6
52.5°	158.2
55°	138.7
57.5°	119.9
60°	102.1
62.5°	85.9
65°	72.3
67.5°	59.5
70°	49.3
72.5°	40.0
75°	32.3
77.5°	24.7
80°	18.7
82.5°	13.6
85°	9.4
87.5°	6.0
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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