

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: P641885

Luminaire Tested: ML5612LSVWFL97FS1E - 694TBZB - 600LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641885
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 - 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: 1023.2 lumens
Efficiency: N/A
Efficacy: 99.3 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

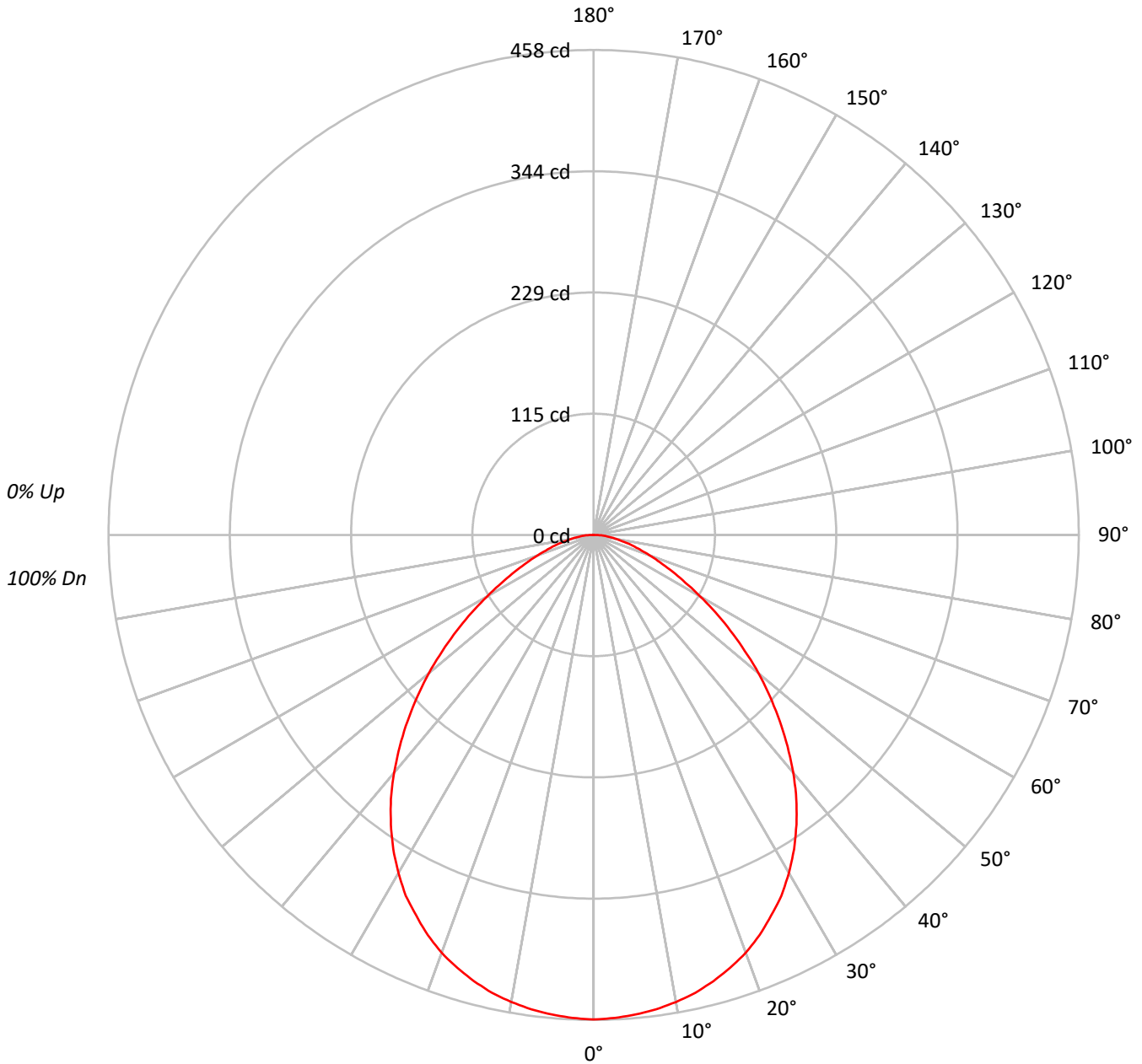
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	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°	25086
5°	25022
10°	24933
15°	24762
20°	24496
25°	23989
30°	23333
35°	22339
40°	20975
45°	19273
50°	17330
55°	15072
60°	12729
65°	10663
70°	8992
75°	7795
80°	6724
85°	6667

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19273 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.2	4.2
10°-20°	123.0	12.0
20°-30°	182.6	17.8
30°-40°	208.1	20.3
40°-50°	191.3	18.7
50°-60°	141.4	13.8
60°-70°	82.4	8.1
70°-80°	39.3	3.8
80°-90°	11.9	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°	348.8	34.1
0°-40°	557.0	54.4
0°-60°	889.7	86.9
0°-90°	1023.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1023.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	458	
5°	455	43
15°	436	123
25°	397	183
35°	334	208
45°	249	191
55°	158	141
65°	82	82
75°	37	39
85°	11	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	457.6
2.5°	456.6
5°	454.7
7.5°	451.8
10°	447.9
12.5°	443.1
15°	436.3
17.5°	428.6
20°	419.9
22.5°	409.2
25°	396.6
27.5°	384.1
30°	368.6
32.5°	352.1
35°	333.8
37.5°	314.4
40°	293.1
42.5°	270.9
45°	248.6
47.5°	225.4
50°	203.2
52.5°	179.9
55°	157.7
57.5°	136.4
60°	116.1
62.5°	97.7
65°	82.2
67.5°	67.7
70°	56.1
72.5°	45.5
75°	36.8
77.5°	28.1
80°	21.3
82.5°	15.5
85°	10.6
87.5°	6.8
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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