

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: P641878

Luminaire Tested: ML5612LSVWFL97FS1E - 694TBZB - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641878
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 - 3500K
Description: ML56 RR, MILKY OPTIC, 6" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1476.4 lumens
Efficiency: N/A
Efficacy: 89.5 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

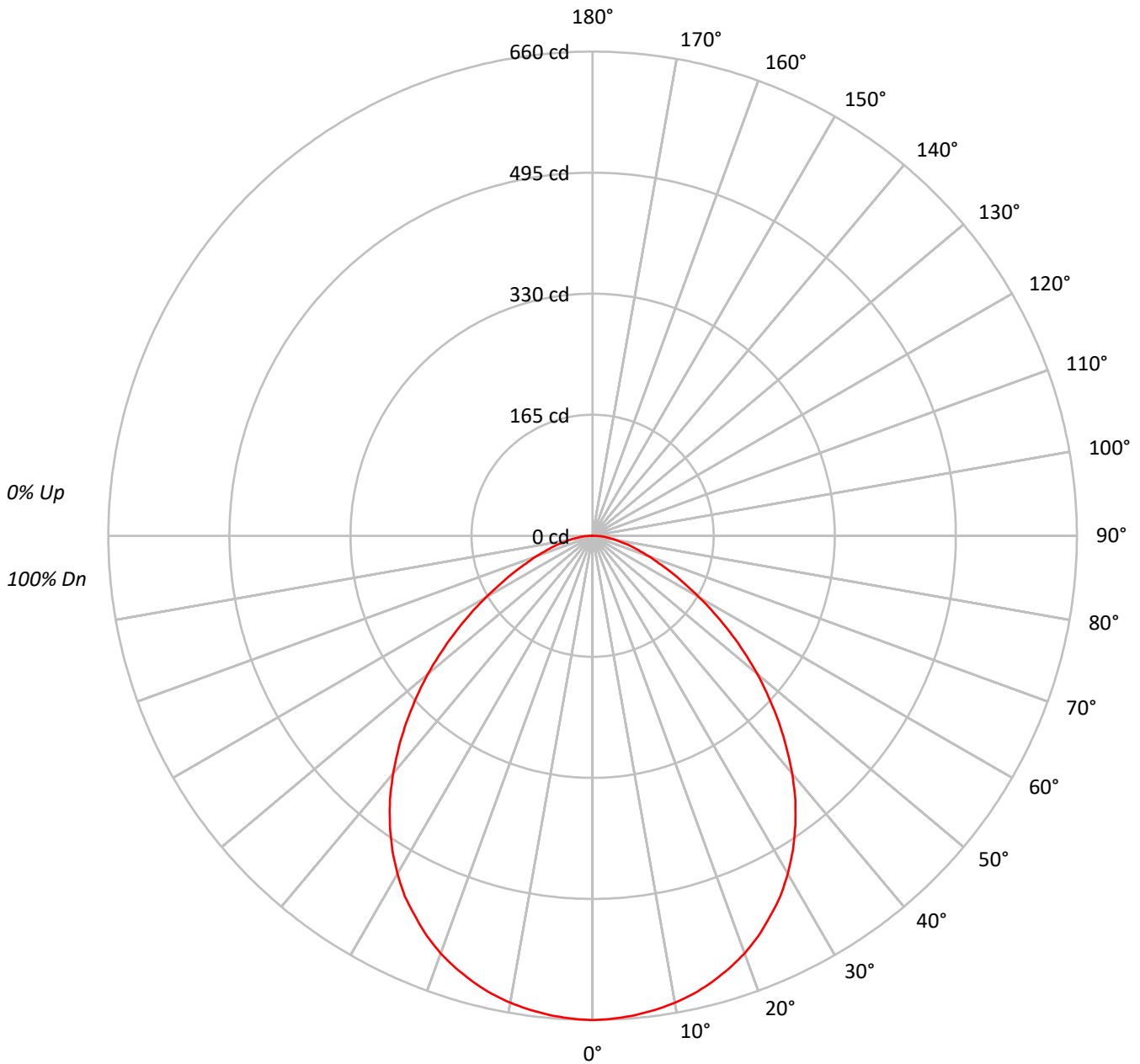
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	36192
5°	36105
10°	35977
15°	35727
20°	35341
25°	34617
30°	33663
35°	32230
40°	30264
45°	27809
50°	24997
55°	21744
60°	18365
65°	15384
70°	12983
75°	11226
80°	9692
85°	9686

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 27809 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.3	4.2
10°-20°	177.5	12.0
20°-30°	263.5	17.8
30°-40°	300.3	20.3
40°-50°	276.0	18.7
50°-60°	204.0	13.8
60°-70°	119.0	8.1
70°-80°	56.7	3.8
80°-90°	17.1	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°	503.3	34.1
0°-40°	803.7	54.4
0°-60°	1283.6	86.9
0°-90°	1476.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1476.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	660	
5°	656	62
15°	630	178
25°	572	264
35°	482	300
45°	359	276
55°	228	204
65°	119	119
75°	53	57
85°	15	17
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	660.2
2.5°	658.9
5°	656.1
7.5°	651.9
10°	646.3
12.5°	639.3
15°	629.5
17.5°	618.4
20°	605.8
22.5°	590.5
25°	572.3
27.5°	554.2
30°	531.8
32.5°	508.1
35°	481.6
37.5°	453.7
40°	422.9
42.5°	390.8
45°	358.7
47.5°	325.2
50°	293.1
52.5°	259.6
55°	227.5
57.5°	196.8
60°	167.5
62.5°	141.0
65°	118.6
67.5°	97.7
70°	81.0
72.5°	65.6
75°	53.0
77.5°	40.5
80°	30.7
82.5°	22.3
85°	15.4
87.5°	9.8
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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(END OF REPORT)