

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: P641711

Luminaire Tested: ML5612LSVWFL97FS1E - 594TBZB - 1200LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641711
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-103)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL97FS1E - 594TBZB - 1200LM - 2700K
Description: ML56 RR, MILKY OPTIC, 5" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1407.9 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.27
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

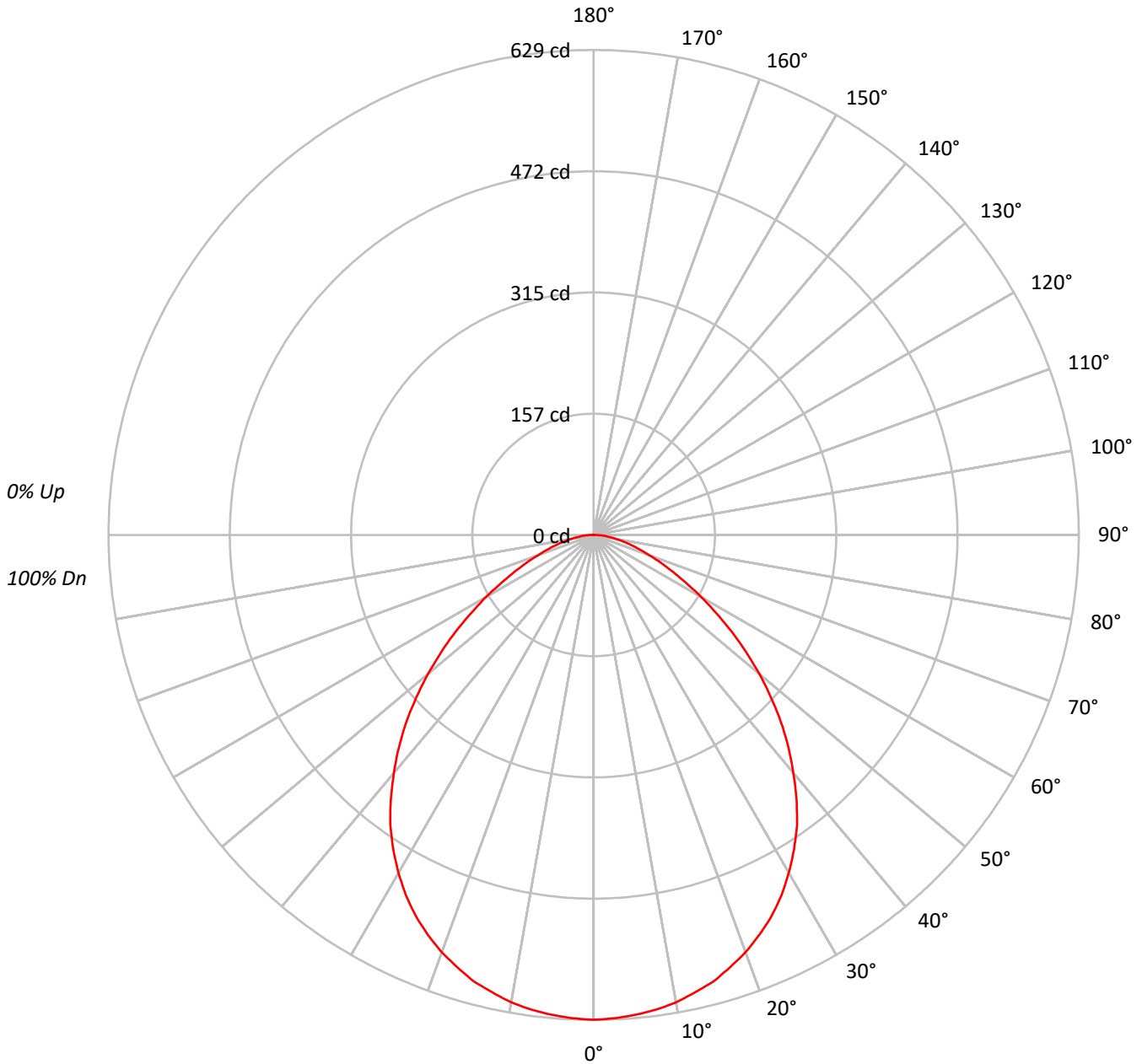
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	100	100
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87	87	87	87
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	82	79	76	74	74	74	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64	64	64	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56	56	56	56
5	79	68	59	53	77	67	59	53	64	58	52	63	57	52	61	55	51	49	49	49	49
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44	44	44	44
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39	39	39	39
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35	35	35	35
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32	32	32	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29	29	29	29

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	49638
5°	49511
10°	49346
15°	49011
20°	48388
25°	47523
30°	46123
35°	44301
40°	41519
45°	38348
50°	34399
55°	30003
60°	25451
65°	21219
70°	17680
75°	15311
80°	13229
85°	13133

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 38348 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.4	4.2
10°-20°	168.9	12.0
20°-30°	250.8	17.8
30°-40°	286.1	20.3
40°-50°	264.1	18.8
50°-60°	195.1	13.9
60°-70°	113.9	8.1
70°-80°	53.6	3.8
80°-90°	16.2	1.1
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°	479.0	34.0
0°-40°	765.1	54.3
0°-60°	1224.3	87.0
0°-90°	1407.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1407.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	629	
5°	625	59
15°	600	169
25°	546	251
35°	460	286
45°	344	264
55°	218	195
65°	114	114
75°	50	54
85°	14	16
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	628.8
2.5°	627.5
5°	624.8
7.5°	620.9
10°	615.6
12.5°	607.7
15°	599.7
17.5°	587.9
20°	576.0
22.5°	561.4
25°	545.6
27.5°	527.1
30°	506.0
32.5°	483.5
35°	459.7
37.5°	432.0
40°	402.9
42.5°	373.9
45°	343.5
47.5°	311.8
50°	280.1
52.5°	248.4
55°	218.0
57.5°	187.6
60°	161.2
62.5°	134.7
65°	113.6
67.5°	93.8
70°	76.6
72.5°	62.1
75°	50.2
77.5°	38.3
80°	29.1
82.5°	21.1
85°	14.5
87.5°	9.2
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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