

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: P641714

Luminaire Tested: ML5612LSVWFL97FS1E - 594TBZB - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641714
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 - 4000K
Description: ML56 RR, MILKY OPTIC, 5" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1600.6 lumens
Efficiency: N/A
Efficacy: 97.0 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

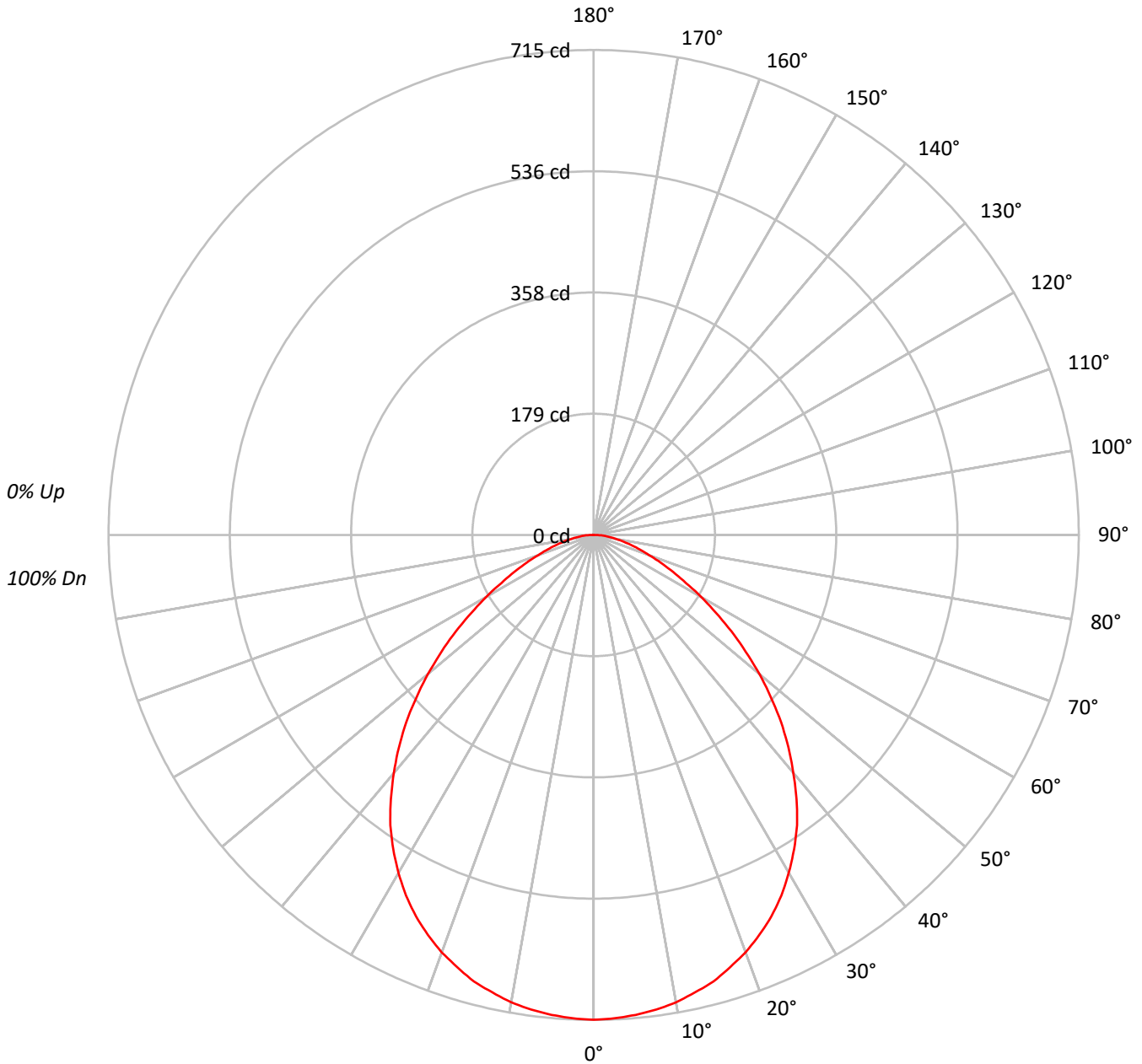
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	56427
5°	56286
10°	56095
15°	55721
20°	55008
25°	54020
30°	52431
35°	50362
40°	47197
45°	43595
50°	39103
55°	34105
60°	28924
65°	24133
70°	20103
75°	17416
80°	15002
85°	14945

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 43595 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.5	4.2
10°-20°	192.0	12.0
20°-30°	285.1	17.8
30°-40°	325.2	20.3
40°-50°	300.2	18.8
50°-60°	221.8	13.9
60°-70°	129.5	8.1
70°-80°	61.0	3.8
80°-90°	18.4	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°	544.5	34.0
0°-40°	869.7	54.3
0°-60°	1391.7	87.0
0°-90°	1600.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1600.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	715	
5°	710	67
15°	682	192
25°	620	285
35°	523	325
45°	390	300
55°	248	222
65°	129	129
75°	57	61
85°	16	18
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	714.8
2.5°	713.3
5°	710.3
7.5°	705.8
10°	699.8
12.5°	690.8
15°	681.8
17.5°	668.3
20°	654.8
22.5°	638.3
25°	620.2
27.5°	599.2
30°	575.2
32.5°	549.7
35°	522.6
37.5°	491.1
40°	458.0
42.5°	425.0
45°	390.5
47.5°	354.4
50°	318.4
52.5°	282.3
55°	247.8
57.5°	213.3
60°	183.2
62.5°	153.2
65°	129.2
67.5°	106.6
70°	87.1
72.5°	70.6
75°	57.1
77.5°	43.6
80°	33.0
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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