

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: P641713

Luminaire Tested: ML5612LSVWFL97FS1E - 594TBZB - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641713
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 - 3500K
Description: ML56 RR, MILKY OPTIC, 5" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

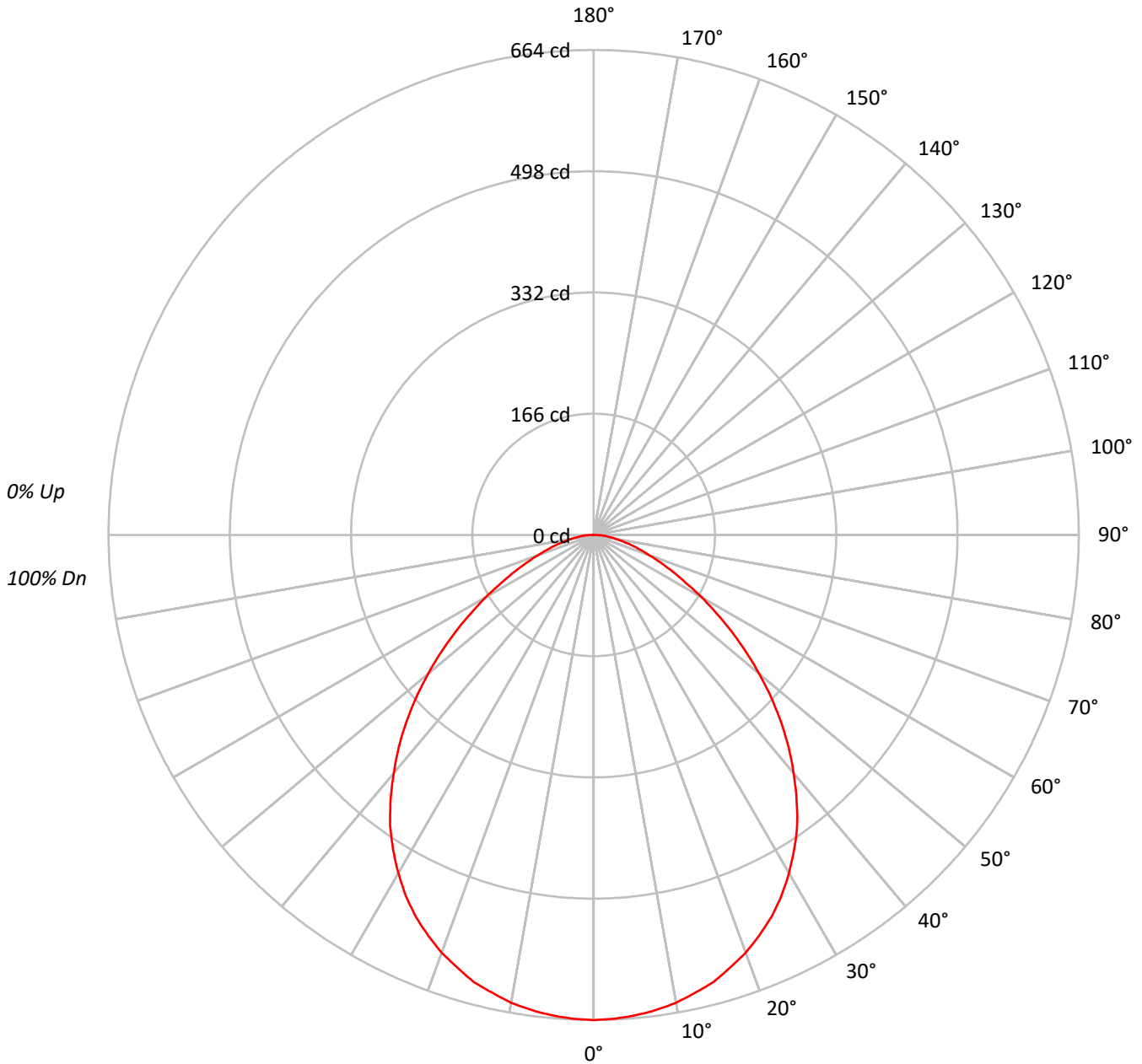
Lumens per Lamp: N/A
Luminaire Lumens: 1487.6 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.27
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (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									
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																			
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87																			
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	82	79	76	74																			
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64																			
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56																			
5	79	68	59	53	77	67	59	53	64	58	52	63	57	52	61	55	51	49																			
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44																			
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39																			
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35																			
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32																			
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	52448
5°	52316
10°	52135
15°	51790
20°	51127
25°	50205
30°	48730
35°	46806
40°	43868
45°	40514
50°	36340
55°	31696
60°	26887
65°	22415
70°	18695
75°	16165
80°	13956
85°	13948

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 40514 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.7	4.2
10°-20°	178.4	12.0
20°-30°	264.9	17.8
30°-40°	302.3	20.3
40°-50°	279.0	18.8
50°-60°	206.2	13.9
60°-70°	120.3	8.1
70°-80°	56.7	3.8
80°-90°	17.1	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°	506.1	34.0
0°-40°	808.3	54.3
0°-60°	1293.5	87.0
0°-90°	1487.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1487.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	664	
5°	660	63
15°	634	178
25°	576	265
35°	486	302
45°	363	279
55°	230	206
65°	120	120
75°	53	57
85°	15	17
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	664.4
2.5°	663.0
5°	660.2
7.5°	656.0
10°	650.4
12.5°	642.0
15°	633.7
17.5°	621.1
20°	608.6
22.5°	593.2
25°	576.4
27.5°	556.9
30°	534.6
32.5°	510.8
35°	485.7
37.5°	456.4
40°	425.7
42.5°	395.0
45°	362.9
47.5°	329.4
50°	295.9
52.5°	262.4
55°	230.3
57.5°	198.2
60°	170.3
62.5°	142.4
65°	120.0
67.5°	99.1
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)