

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P641712

Luminaire Tested: ML5612LSVWFL97FS1E - 594TBZB - 1200LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641712
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 - 3000K
Description: ML56 RR, MILKY OPTIC, 5" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

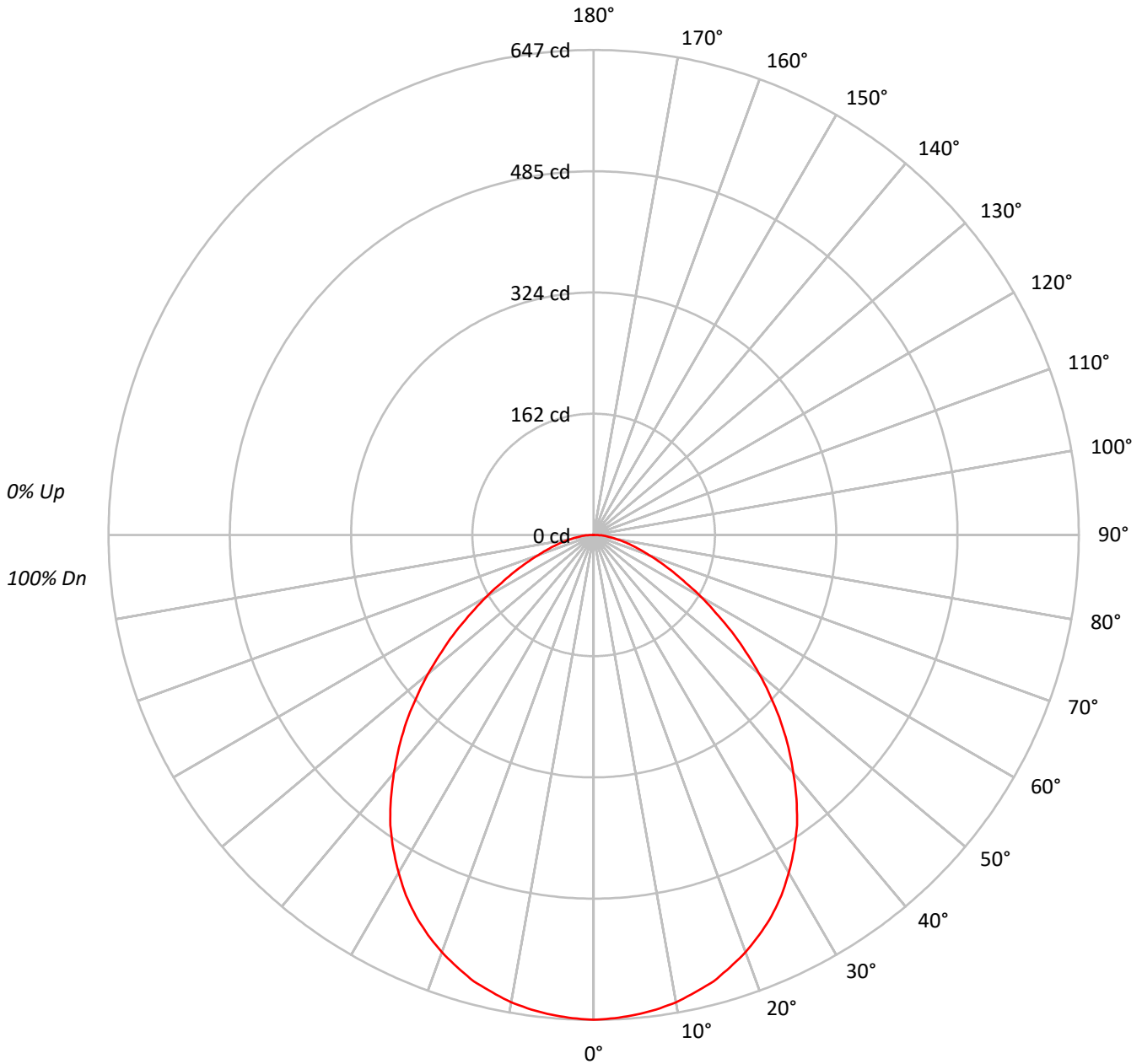
Lumens per Lamp: N/A
Luminaire Lumens: 1448.1 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.27
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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				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	79	68	59	53	77	67	59	53	64	58	52	63	57	52	61	55	51	49				49
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	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	44	38	34	43	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°	51059
5°	50929
10°	50756
15°	50417
20°	49766
25°	48881
30°	47436
35°	45573
40°	42704
45°	39442
50°	35382
55°	30856
60°	26177
65°	21836
70°	18188
75°	15738
80°	13593
85°	13496

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 39442 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.0	4.2
10°-20°	173.7	12.0
20°-30°	257.9	17.8
30°-40°	294.3	20.3
40°-50°	271.6	18.8
50°-60°	200.7	13.9
60°-70°	117.2	8.1
70°-80°	55.2	3.8
80°-90°	16.6	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°	492.7	34.0
0°-40°	786.9	54.3
0°-60°	1259.2	87.0
0°-90°	1448.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1448.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	647	
5°	643	61
15°	617	174
25°	561	258
35°	473	294
45°	353	272
55°	224	201
65°	117	117
75°	52	55
85°	15	17
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	646.8
2.5°	645.4
5°	642.7
7.5°	638.6
10°	633.2
12.5°	625.0
15°	616.9
17.5°	604.7
20°	592.4
22.5°	577.5
25°	561.2
27.5°	542.2
30°	520.4
32.5°	497.3
35°	472.9
37.5°	444.3
40°	414.4
42.5°	384.5
45°	353.3
47.5°	320.7
50°	288.1
52.5°	255.4
55°	224.2
57.5°	192.9
60°	165.8
62.5°	138.6
65°	116.9
67.5°	96.5
70°	78.8
72.5°	63.9
75°	51.6
77.5°	39.4
80°	29.9
82.5°	21.7
85°	14.9
87.5°	9.5
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)