

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: P642059

Luminaire Tested: ML5612LSWFL5597FS1E - 594TBZB - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642059
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 594TBZB - 1200LM - 4000K
Description: ML56 RR, 55D TIR 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: 1707.1 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.88
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

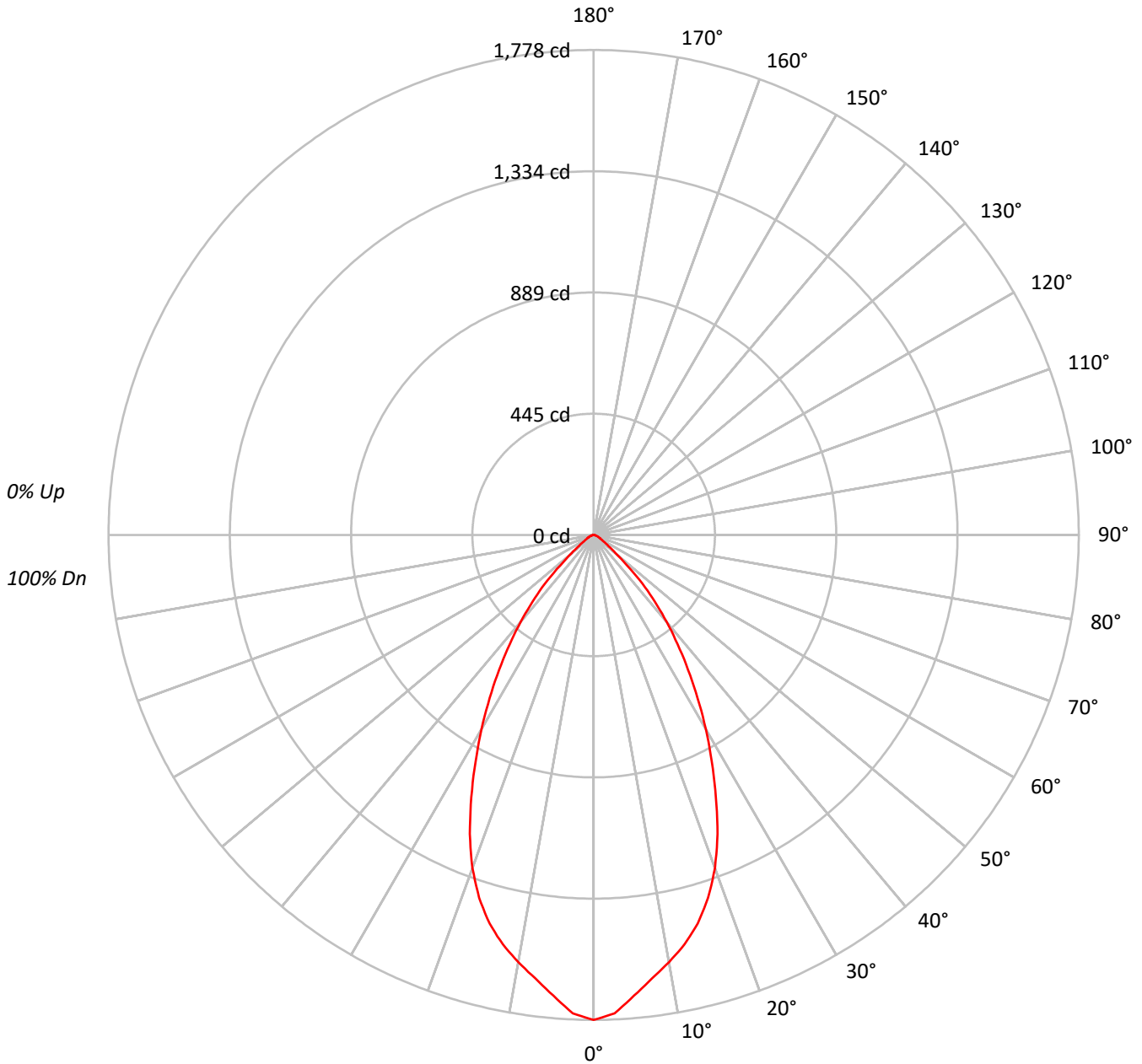
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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									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	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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92																											
2	107	101	97	93	105	100	96	92	96	93	90	93	91	88	91	88	87	85																											
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78																											
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72																											
5	90	81	74	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66																											
6	85	75	69	64	83	74	68	64	73	68	64	71	67	63	70	66	63	61																											
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57																											
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53																											
9	72	62	56	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49																											
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	55	51	47	46																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	140365
5°	134356
10°	127484
15°	120521
20°	109125
25°	92345
30°	74882
35°	58178
40°	42869
45°	28167
50°	13644
55°	7239
60°	4736
65°	3923
70°	3116
75°	2288
80°	1364
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 28167 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.6	9.3
10°-20°	410.6	24.1
20°-30°	484.5	28.4
30°-40°	377.6	22.1
40°-50°	193.1	11.3
50°-60°	52.5	3.1
60°-70°	21.3	1.2
70°-80°	8.1	0.5
80°-90°	0.8	0.0
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°	1053.7	61.7
0°-40°	1431.3	83.8
0°-60°	1676.9	98.2
0°-90°	1707.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1707.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1778	
5°	1696	159
15°	1475	411
25°	1060	485
35°	604	378
45°	252	193
55°	53	53
65°	21	21
75°	8	8
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1778.1
2.5°	1755.6
5°	1695.5
7.5°	1639.9
10°	1590.4
12.5°	1537.8
15°	1474.7
17.5°	1395.1
20°	1299.0
22.5°	1186.4
25°	1060.2
27.5°	937.1
30°	821.5
32.5°	708.8
35°	603.7
37.5°	504.6
40°	416.0
42.5°	331.9
45°	252.3
47.5°	166.7
50°	111.1
52.5°	75.1
55°	52.6
57.5°	39.0
60°	30.0
62.5°	25.5
65°	21.0
67.5°	18.0
70°	13.5
72.5°	10.5
75°	7.5
77.5°	4.5
80°	3.0
82.5°	1.5
85°	0.0
87.5°	0.0
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)