

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: P643874

Luminaire Tested: ML5615LSWFL559FS1E - 594TBZB - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643874
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: ML5615LSWFL559FS1E - 594TBZB - 1200LM - 4000K
Description: ML56 RR, 55D TIR OPTIC, 5" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1634.8 lumens
Efficiency: N/A
Efficacy: 122.0 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

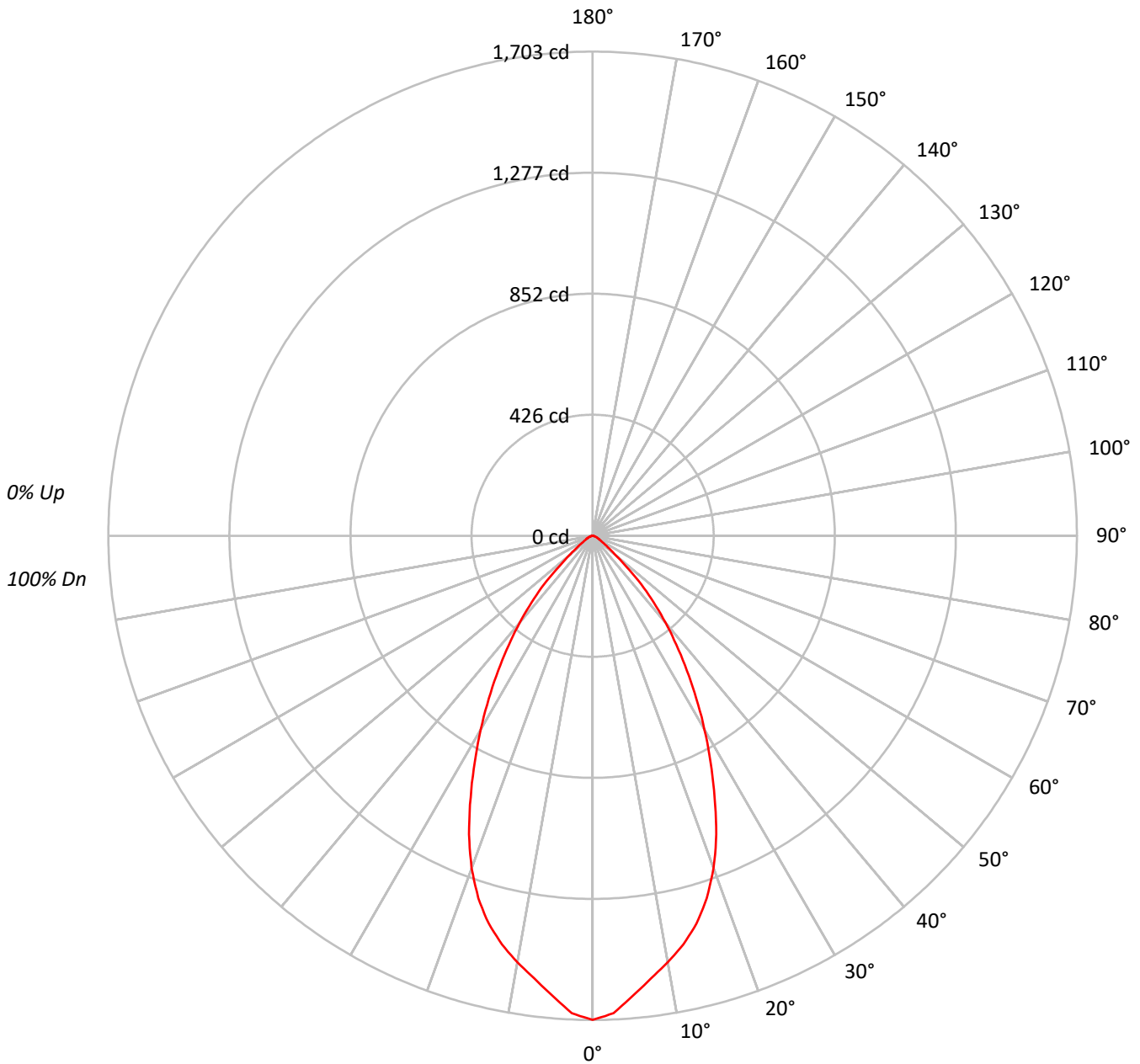
Input Watts (W): 13.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	134413
5°	128658
10°	122074
15°	115413
20°	104505
25°	88434
30°	71701
35°	55711
40°	41055
45°	26972
50°	13067
55°	6923
60°	4547
65°	3754
70°	2977
75°	2196
80°	1318
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 26972 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.9	9.3
10°-20°	393.2	24.1
20°-30°	464.0	28.4
30°-40°	361.6	22.1
40°-50°	184.9	11.3
50°-60°	50.3	3.1
60°-70°	20.4	1.2
70°-80°	7.8	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°	1009.0	61.7
0°-40°	1370.6	83.8
0°-60°	1605.8	98.2
0°-90°	1634.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1634.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1703	
5°	1624	152
15°	1412	393
25°	1015	464
35°	578	362
45°	242	185
55°	50	50
65°	20	20
75°	7	8
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1702.7
2.5°	1681.1
5°	1623.6
7.5°	1570.4
10°	1522.9
12.5°	1472.6
15°	1412.2
17.5°	1336.0
20°	1244.0
22.5°	1136.1
25°	1015.3
27.5°	897.4
30°	786.6
32.5°	678.8
35°	578.1
37.5°	483.2
40°	398.4
42.5°	317.8
45°	241.6
47.5°	159.6
50°	106.4
52.5°	71.9
55°	50.3
57.5°	37.4
60°	28.8
62.5°	24.4
65°	20.1
67.5°	17.3
70°	12.9
72.5°	10.1
75°	7.2
77.5°	4.3
80°	2.9
82.5°	1.4
85°	0.0
87.5°	0.0
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)