

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: P643834

Luminaire Tested: ML5615LSWFL559FS1E - 593TBZB - 1500LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643834
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 593TBZB - 1500LM - 4000K
Description: ML56 RR, 55D TIR OPTIC, 5" TUSCON BRONZE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1926.7 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

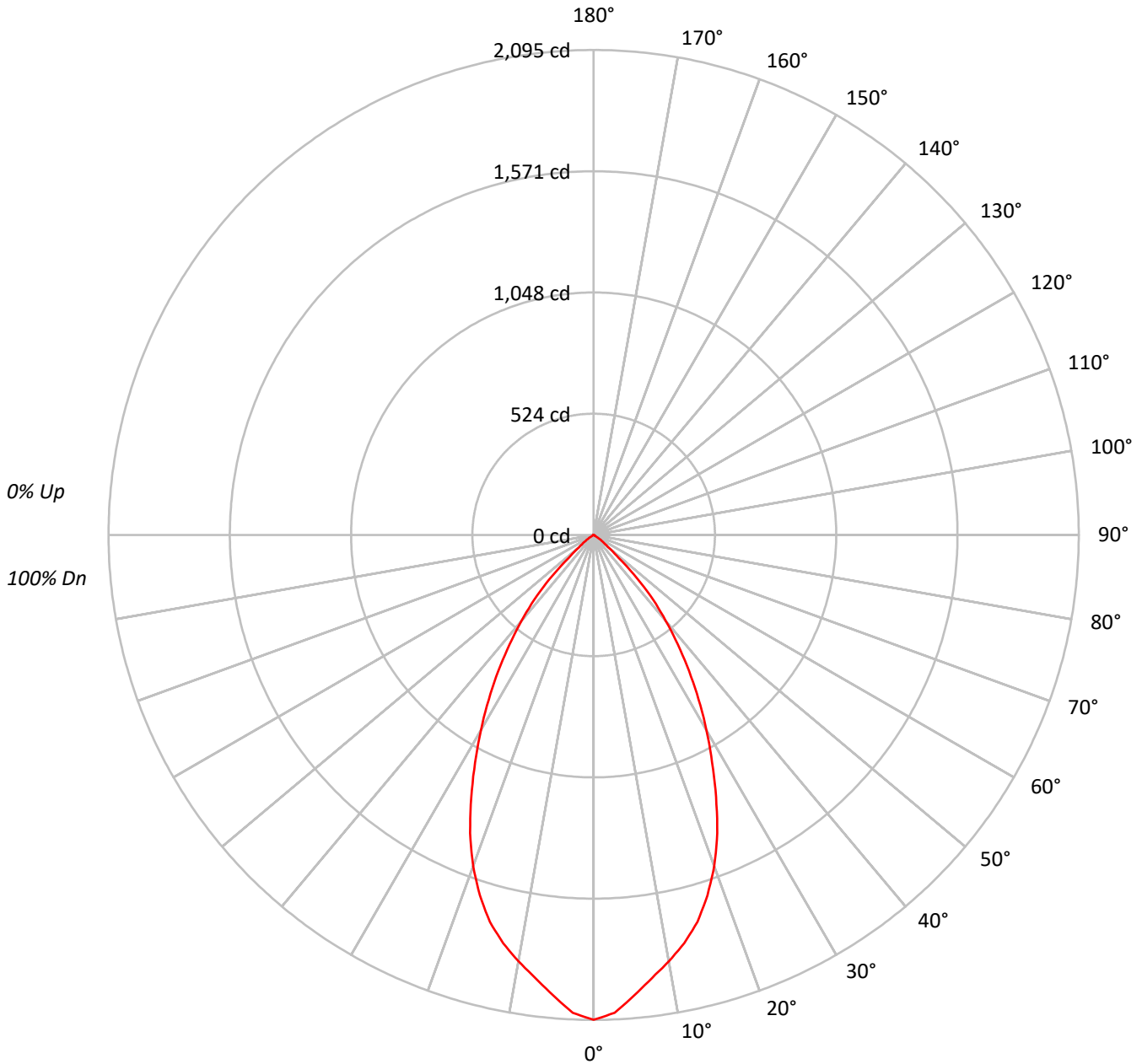
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	110	108	106	111	108	106	104	104	102	101		101	99	98		97	96	95	93
2	107	102	98	95	105	101	97	94	97	94	92		94	92	90		92	90	88	86
3	102	95	90	86	100	94	89	85	91	87	84		89	85	82		86	83	81	79
4	96	88	83	78	94	87	82	78	85	80	77		83	79	76		81	78	75	73
5	91	82	76	72	89	81	76	71	80	75	71		78	73	70		76	72	69	68
6	86	77	71	66	85	76	70	66	75	69	65		73	68	65		72	68	65	63
7	82	72	66	61	80	71	65	61	70	65	61		69	64	60		68	63	60	59
8	77	67	61	57	76	67	61	57	66	60	57		65	60	56		64	59	56	55
9	73	63	57	53	72	63	57	53	62	57	53		61	56	53		60	56	52	51
10	70	60	54	50	69	59	54	50	58	53	49		58	53	49		57	52	49	48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	165350
5°	158271
10°	149905
15°	141418
20°	127851
25°	108851
30°	88774
35°	69154
40°	49907
45°	29997
50°	10206
55°	4624
60°	1389
65°	336
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 29997 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.7	9.7
10°-20°	481.6	25.0
20°-30°	571.1	29.6
30°-40°	447.1	23.2
40°-50°	204.4	10.6
50°-60°	33.5	1.7
60°-70°	2.4	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	1239.4	64.3
0°-40°	1686.5	87.5
0°-60°	1924.4	99.9
0°-90°	1926.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1926.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2095	
5°	1997	187
15°	1730	482
25°	1250	571
35°	718	447
45°	269	204
55°	34	33
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2094.6
2.5°	2066.3
5°	1997.3
7.5°	1930.2
10°	1870.1
12.5°	1806.5
15°	1730.4
17.5°	1633.2
20°	1521.9
22.5°	1394.6
25°	1249.7
27.5°	1108.3
30°	973.9
32.5°	843.1
35°	717.6
37.5°	595.7
40°	484.3
42.5°	380.0
45°	268.7
47.5°	146.7
50°	83.1
52.5°	53.0
55°	33.6
57.5°	19.4
60°	8.8
62.5°	3.5
65°	1.8
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
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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