

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: P644012

Luminaire Tested: ML5615LSWFL559FS1E - 693TBZB - 1500LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P644012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-66)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 693TBZB - 1500LM - 3000K
Description: ML56 RR, 55D TIR OPTIC, 6" TUSCON BRONZE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

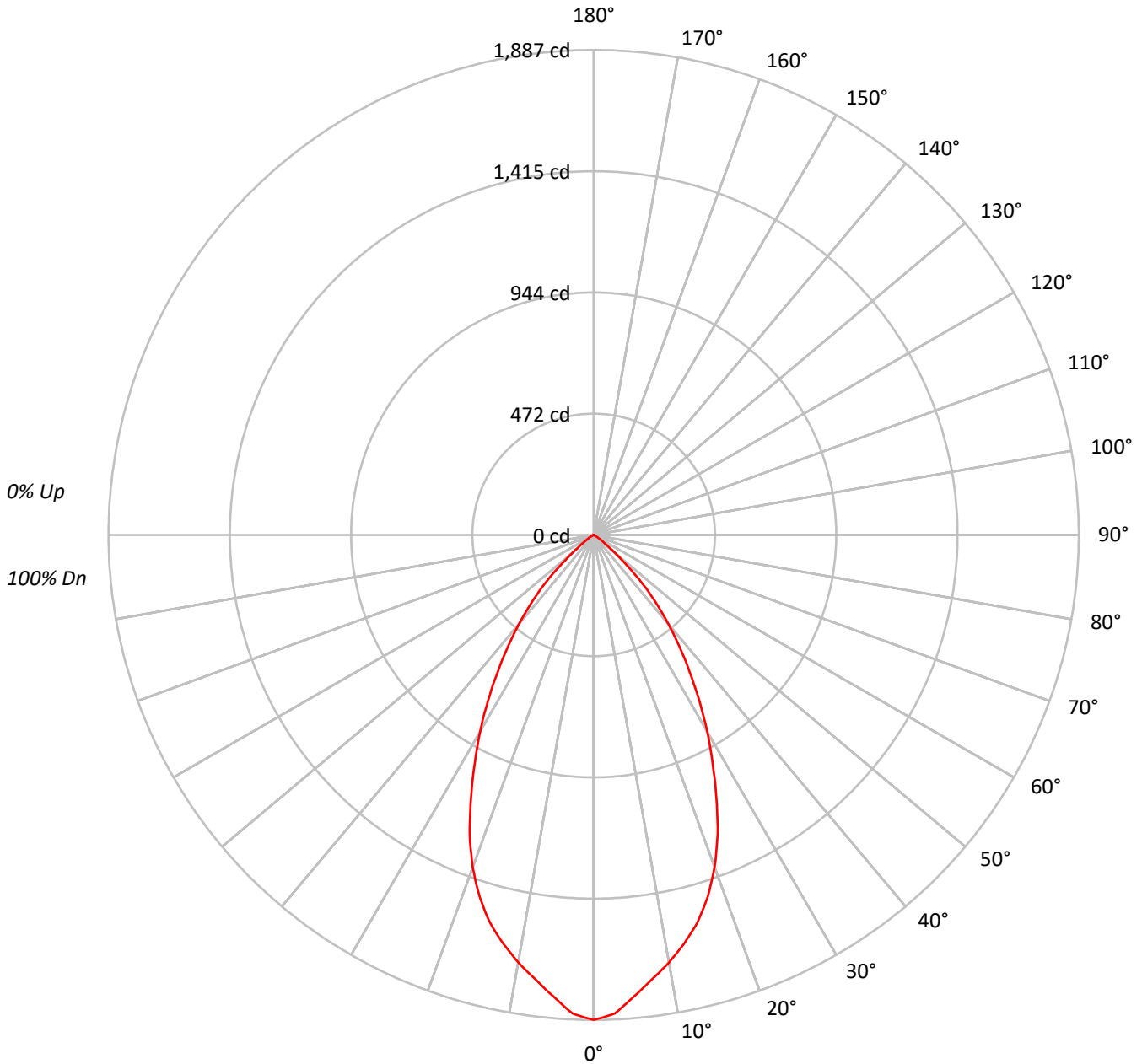
Lumens per Lamp: N/A
Luminaire Lumens: 1773.7 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	105	111	108	106	104	104	102	101		100	99	98		97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91		94	92	89		91	89	87	86
3	101	95	89	85	99	93	88	85	91	87	83		88	85	82		86	83	81	79
4	96	88	82	78	94	87	81	77	85	80	76		83	79	75		81	77	74	73
5	91	82	76	71	89	81	75	71	79	74	70		77	73	70		76	72	69	67
6	86	76	70	66	84	76	70	65	74	69	65		73	68	64		71	67	64	62
7	81	71	65	61	80	71	65	60	69	64	60		68	63	60		67	63	59	58
8	77	67	61	56	76	66	60	56	65	60	56		64	59	56		63	59	55	54
9	73	63	57	52	72	62	56	52	61	56	52		60	56	52		60	55	52	50
10	69	59	53	49	68	59	53	49	58	53	49		57	52	49		56	52	49	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	103462
5°	99191
10°	94014
15°	88593
20°	80244
25°	68302
30°	55888
35°	43560
40°	32275
45°	20956
50°	8733
55°	3211
60°	1403
65°	415
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20956 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.6	9.5
10°-20°	434.7	24.5
20°-30°	516.2	29.1
30°-40°	407.6	23.0
40°-50°	205.3	11.6
50°-60°	37.0	2.1
60°-70°	4.3	0.2
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°	1119.5	63.1
0°-40°	1527.2	86.1
0°-60°	1769.4	99.8
0°-90°	1773.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1773.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1887	
5°	1802	169
15°	1561	435
25°	1129	516
35°	651	408
45°	270	205
55°	34	37
65°	3	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1887.3
2.5°	1864.9
5°	1802.5
7.5°	1743.3
10°	1688.9
12.5°	1628.2
15°	1561.0
17.5°	1476.2
20°	1375.5
22.5°	1260.3
25°	1129.2
27.5°	1001.2
30°	882.9
32.5°	764.5
35°	650.9
37.5°	547.0
40°	451.0
42.5°	358.3
45°	270.3
47.5°	174.3
50°	102.4
52.5°	54.4
55°	33.6
57.5°	22.4
60°	12.8
62.5°	6.4
65°	3.2
67.5°	1.6
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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