

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: P643752

Luminaire Tested: ML5615LSWFL559FS1E - 592H - 1200LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643752
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 592H - 1200LM - 3000K
Description: ML56 RR, 55D TIR OPTIC, 5" HAZE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1460.9 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.88
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

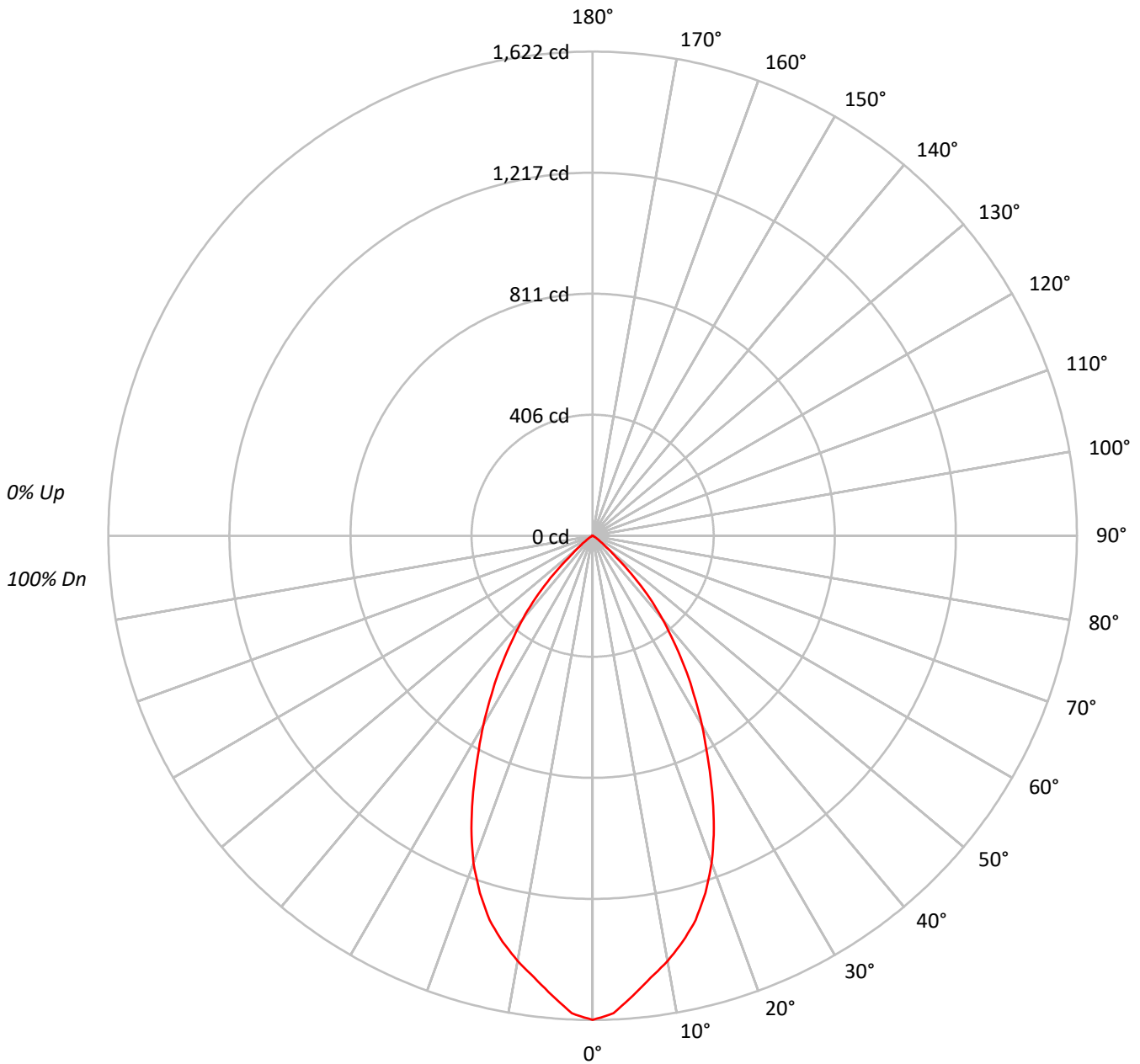
Input Watts (W): 13.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P643752

CATALOG NUMBER: ML5615LSWFL559FS1E - 592H - 1200LM - 3000K

Luminous Intensity Polar Plot





TEST NUMBER: P643752

CATALOG NUMBER: ML5615LSWFL559FS1E - 592H - 1200LM - 3000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	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	84	81	80																			
4	96	88	83	78	94	87	82	78	85	81	77	83	79	76	81	78	75	74																			
5	91	82	76	72	89	82	76	72	80	75	71	78	74	70	76	73	70	68																			
6	86	77	71	66	85	76	70	66	75	70	66	73	69	65	72	68	65	63																			
7	82	72	66	62	80	71	66	61	70	65	61	69	64	61	68	64	60	59																			
8	78	68	61	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55																			
9	74	64	58	53	73	63	57	53	62	57	53	61	56	53	60	56	53	51																			
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	50	48																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	128034
5°	122541
10°	115926
15°	108932
20°	97978
25°	82424
30°	66688
35°	51808
40°	37428
45°	22239
50°	7516
55°	3399
60°	1026
65°	243
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22239 cd/sqm



TEST NUMBER: P643752

CATALOG NUMBER: ML5615LSWFL559FS1E - 592H - 1200LM - 3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.5	9.9
10°-20°	370.6	25.4
20°-30°	432.5	29.6
30°-40°	334.7	22.9
40°-50°	151.8	10.4
50°-60°	24.7	1.7
60°-70°	2.1	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°	947.6	64.9
0°-40°	1282.3	87.8
0°-60°	1458.8	99.9
0°-90°	1460.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1460.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1622	
5°	1546	144
15°	1333	371
25°	946	432
35°	538	335
45°	199	152
55°	25	25
65°	1	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P643752

CATALOG NUMBER: ML5615LSWFL559FS1E - 592H - 1200LM - 3000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	1621.9
2.5°	1601.1
5°	1546.4
7.5°	1493.1
10°	1446.2
12.5°	1392.8
15°	1332.9
17.5°	1254.8
20°	1166.3
22.5°	1060.9
25°	946.3
27.5°	833.1
30°	731.6
32.5°	631.3
35°	537.6
37.5°	443.9
40°	363.2
42.5°	283.8
45°	199.2
47.5°	106.7
50°	61.2
52.5°	39.1
55°	24.7
57.5°	14.3
60°	6.5
62.5°	2.6
65°	1.3
67.5°	1.3
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

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

Scaled Data Report



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

Scaled Data Report



— 0°-180°

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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



(END OF REPORT)