

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: P643890

Luminaire Tested: ML5615LSWFL559FS1E - 594WB - 1200LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643890
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-55)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 594WB - 1200LM - 5000K
Description: ML56 RR, 55D TIR OPTIC, 5" WHITE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

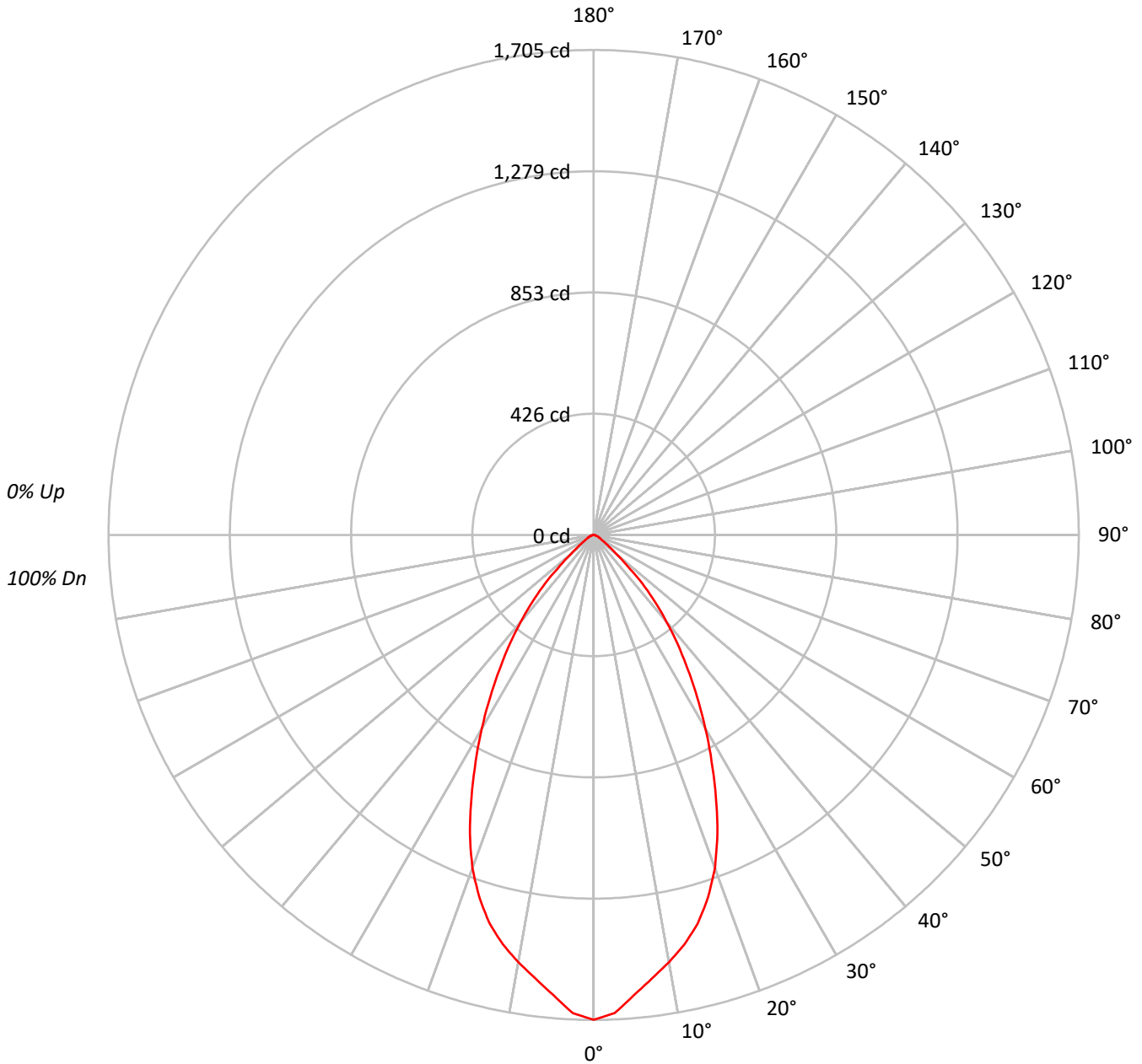
Lumens per Lamp: N/A
Luminaire Lumens: 1635.4 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.88
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P643890
CATALOG NUMBER: ML5615LSWFL559FS1E - 594WB - 1200LM - 5000K

Luminous Intensity Polar Plot





TEST NUMBER: P643890

CATALOG NUMBER: ML5615LSWFL559FS1E - 594WB - 1200LM - 5000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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	69	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°	134563
5°	128690
10°	122226
15°	115560
20°	104648
25°	88460
30°	71592
35°	55586
40°	41065
45°	26983
50°	12895
55°	6923
60°	4768
65°	3754
70°	3324
75°	2196
80°	1318
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 26983 cd/sqm



TEST NUMBER: P643890

CATALOG NUMBER: ML5615LSWFL559FS1E - 594WB - 1200LM - 5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.0	9.3
10°-20°	393.5	24.1
20°-30°	464.1	28.4
30°-40°	361.4	22.1
40°-50°	184.5	11.3
50°-60°	50.3	3.1
60°-70°	20.8	1.3
70°-80°	8.0	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°	1009.7	61.7
0°-40°	1371.0	83.8
0°-60°	1605.9	98.2
0°-90°	1635.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1635.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1705	
5°	1624	152
15°	1414	394
25°	1016	464
35°	577	361
45°	242	185
55°	50	50
65°	20	21
75°	7	8
85°	0	1
90°	0	



TEST NUMBER: P643890

CATALOG NUMBER: ML5615LSWFL559FS1E - 594WB - 1200LM - 5000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	1704.6
2.5°	1683.0
5°	1624.0
7.5°	1572.3
10°	1524.8
12.5°	1474.4
15°	1414.0
17.5°	1336.3
20°	1245.7
22.5°	1136.4
25°	1015.6
27.5°	897.6
30°	785.4
32.5°	677.5
35°	576.8
37.5°	484.8
40°	398.5
42.5°	317.9
45°	241.7
47.5°	158.2
50°	105.0
52.5°	71.9
55°	50.3
57.5°	37.4
60°	30.2
62.5°	24.5
65°	20.1
67.5°	17.3
70°	14.4
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

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)