

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: P642703

Luminaire Tested: ML5615LSNFL259FS1E - 591WB - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642703
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 591WB - 1200LM - 3500K
Description: ML56 RR, 25D TIR OPTIC, 5" DEADFRONT TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

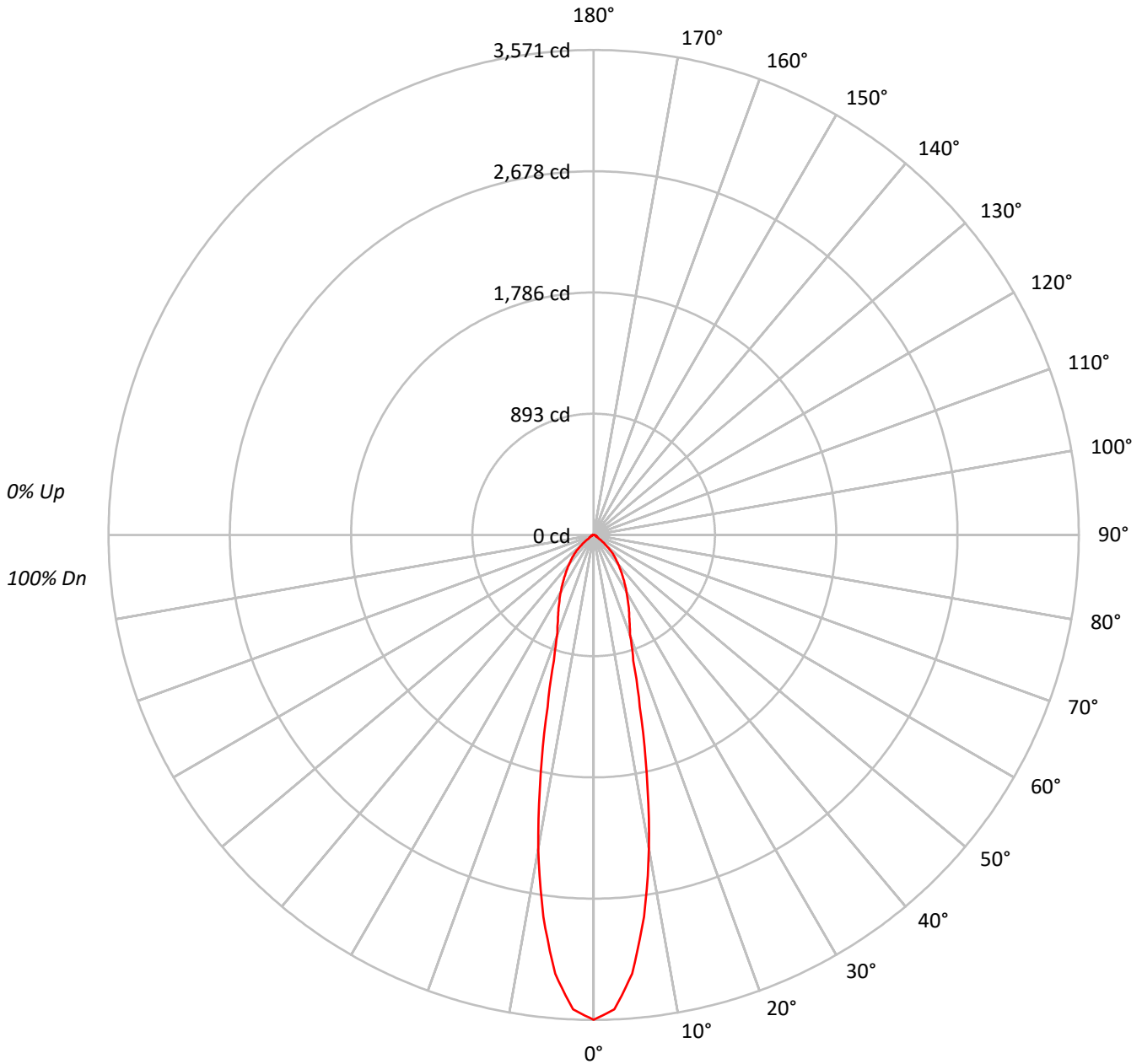
Lumens per Lamp: N/A
Luminaire Lumens: 1419.2 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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: P642703
CATALOG NUMBER: ML5615LSNFL259FS1E - 591WB - 1200LM - 3500K

Luminous Intensity Polar Plot





TEST NUMBER: P642703

CATALOG NUMBER: ML5615LSNFL259FS1E - 591WB - 1200LM - 3500K

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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93			93	
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86			86	
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80			80	
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75			75	
5	92	84	78	74	90	83	77	73	81	76	73	79	75	72	78	74	71	70			70	
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	66			66	
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62			62	
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58			58	
9	77	67	61	58	76	67	61	57	66	61	57	65	60	57	64	60	57	56			56	
10	73	64	58	55	72	64	58	55	63	58	54	62	58	54	61	57	54	53			53	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	281866
5°	256991
10°	188060
15°	107069
20°	65920
25°	53559
30°	44109
35°	35811
40°	28926
45°	23132
50°	15106
55°	6620
60°	4215
65°	3754
70°	3393
75°	3264
80°	3637
85°	3623

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23132 cd/sqm



TEST NUMBER: P642703

CATALOG NUMBER: ML5615LSNFL259FS1E - 591WB - 1200LM - 3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.3	19.8
10°-20°	377.2	26.6
20°-30°	283.2	20.0
30°-40°	233.5	16.5
40°-50°	155.7	11.0
50°-60°	52.8	3.7
60°-70°	20.3	1.4
70°-80°	11.5	0.8
80°-90°	4.7	0.3
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°	940.6	66.3
0°-40°	1174.1	82.7
0°-60°	1382.6	97.4
0°-90°	1419.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1419.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3571	
5°	3243	280
15°	1310	377
25°	615	283
35°	372	233
45°	207	156
55°	48	53
65°	20	20
75°	11	11
85°	4	5
90°	0	



TEST NUMBER: P642703

CATALOG NUMBER: ML5615LSNFL259FS1E - 591WB - 1200LM - 3500K

CANDELA DISTRIBUTION (FULL):

	0°
0°	3570.6
2.5°	3497.1
5°	3243.1
7.5°	2835.4
10°	2346.1
12.5°	1800.7
15°	1310.1
17.5°	971.9
20°	784.7
22.5°	687.1
25°	614.9
27.5°	545.4
30°	483.9
32.5°	425.1
35°	371.6
37.5°	323.5
40°	280.7
42.5°	242.0
45°	207.2
47.5°	161.8
50°	123.0
52.5°	84.2
55°	48.1
57.5°	32.1
60°	26.7
62.5°	24.1
65°	20.1
67.5°	17.4
70°	14.7
72.5°	12.0
75°	10.7
77.5°	9.4
80°	8.0
82.5°	6.7
85°	4.0
87.5°	2.7
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)