

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: P642808

Luminaire Tested: ML5615LSNFL259FS1E - 593WB - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642808
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 593WB - 1200LM - 3500K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1395.1 lumens
Efficiency: N/A
Efficacy: 104.1 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

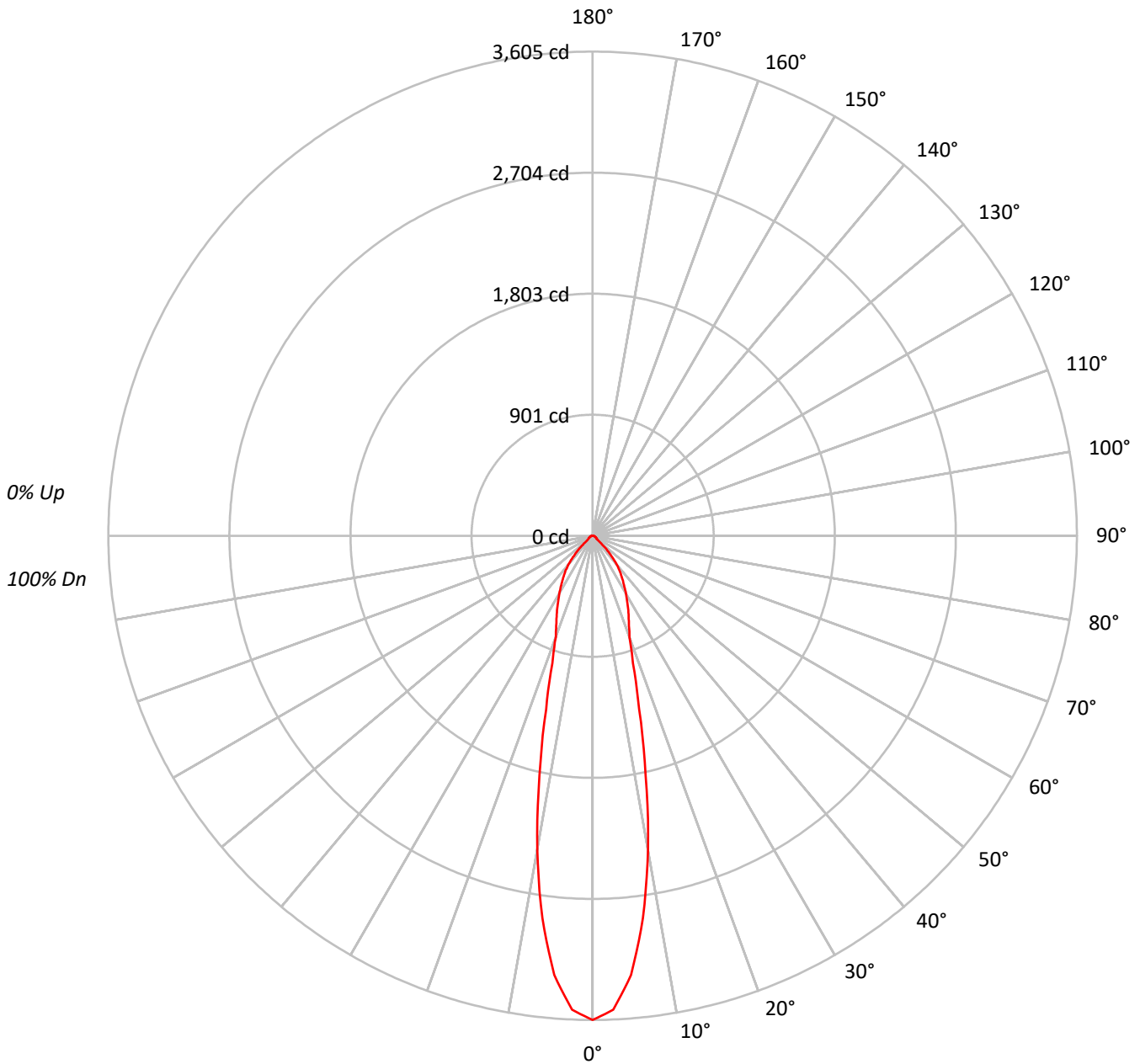
Input Watts (W): 13.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P642808

CATALOG NUMBER: ML5615LSNFL259FS1E - 593WB - 1200LM - 3500K

Luminous Intensity Polar Plot





TEST NUMBER: P642808

CATALOG NUMBER: ML5615LSNFL259FS1E - 593WB - 1200LM - 3500K

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	100	99	98	97	96	95	93																			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86																			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81																			
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	80	77	75																			
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71																			
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67																			
7	85	76	70	66	83	75	69	66	74	69	65	72	68	65	71	67	64	63																			
8	81	72	66	62	80	71	66	62	70	65	62	69	65	61	68	64	61	60																			
9	78	68	63	59	77	68	62	59	67	62	59	66	62	58	65	61	58	57																			
10	74	65	60	56	74	65	60	56	64	59	56	63	59	56	63	58	56	54																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	284582
5°	260026
10°	190465
15°	109284
20°	67399
25°	54857
30°	45103
35°	36726
40°	28936
45°	17762
50°	6570
55°	4968
60°	4642
65°	4240
70°	4316
75°	4484
80°	4273
85°	4800

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17762 cd/sqm



TEST NUMBER: P642808

CATALOG NUMBER: ML5615LSNFL259FS1E - 593WB - 1200LM - 3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.6	20.3
10°-20°	384.2	27.5
20°-30°	289.9	20.8
30°-40°	238.7	17.1
40°-50°	121.6	8.7
50°-60°	34.0	2.4
60°-70°	23.1	1.7
70°-80°	15.0	1.1
80°-90°	4.9	0.4
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°	957.7	68.7
0°-40°	1196.5	85.8
0°-60°	1352.0	96.9
0°-90°	1395.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1395.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3605	
5°	3281	284
15°	1337	384
25°	630	290
35°	381	239
45°	159	122
55°	36	34
65°	23	23
75°	15	15
85°	5	5
90°	0	



TEST NUMBER: P642808

CATALOG NUMBER: ML5615LSNFL259FS1E - 593WB - 1200LM - 3500K

CANDELA DISTRIBUTION (FULL):

	0°
0°	3605.0
2.5°	3531.5
5°	3281.4
7.5°	2870.9
10°	2376.1
12.5°	1826.6
15°	1337.2
17.5°	996.2
20°	802.3
22.5°	703.3
25°	629.8
27.5°	558.9
30°	494.8
32.5°	434.6
35°	381.1
37.5°	333.0
40°	280.8
42.5°	216.6
45°	159.1
47.5°	97.6
50°	53.5
52.5°	41.5
55°	36.1
57.5°	33.4
60°	29.4
62.5°	26.7
65°	22.7
67.5°	20.1
70°	18.7
72.5°	16.0
75°	14.7
77.5°	12.0
80°	9.4
82.5°	6.7
85°	5.3
87.5°	1.3
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)