

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: P642818

Luminaire Tested: ML5615LSNFL259FS1E - 593WB - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642818
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 - 900LM - 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: 1103.1 lumens
Efficiency: N/A
Efficacy: 105.1 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

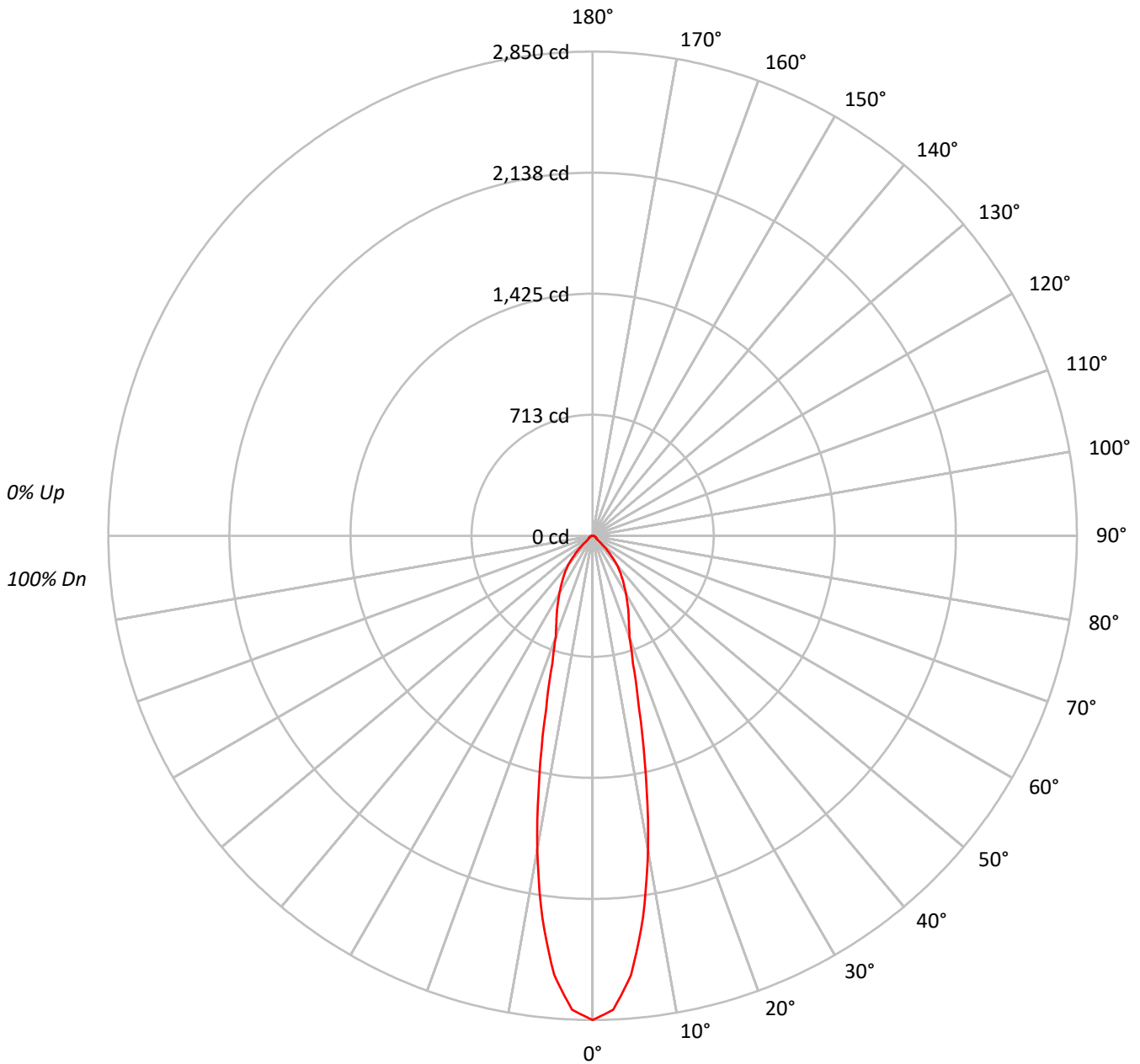
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P642818

CATALOG NUMBER: ML5615LSNFL259FS1E - 593WB - 900LM - 3500K

Luminous Intensity Polar Plot





TEST NUMBER: P642818

CATALOG NUMBER: ML5615LSNFL259FS1E - 593WB - 900LM - 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	100	100
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86	86	86	86
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81	81	81	81
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	80	77	75	75	75	75
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71	71	71	71
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67	67	67	67
7	85	76	70	66	83	75	69	66	74	69	65	72	68	65	71	67	64	63	63	63	63
8	81	72	66	62	80	71	66	62	70	65	62	69	65	61	68	64	61	60	60	60	60
9	78	68	63	59	77	68	62	59	67	62	59	66	62	58	65	61	58	57	57	57	57
10	74	65	60	56	74	65	60	56	64	59	56	63	59	56	63	58	56	54	54	54	54

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	225013
5°	205595
10°	150594
15°	86409
20°	53294
25°	43377
30°	35659
35°	29036
40°	22877
45°	14044
50°	5195
55°	3922
60°	3679
65°	3362
70°	3416
75°	3538
80°	3364
85°	3804

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14044 cd/sqm



TEST NUMBER: P642818

CATALOG NUMBER: ML5615LSNFL259FS1E - 593WB - 900LM - 3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.3	20.3
10°-20°	303.8	27.5
20°-30°	229.2	20.8
30°-40°	188.8	17.1
40°-50°	96.1	8.7
50°-60°	26.9	2.4
60°-70°	18.3	1.7
70°-80°	11.8	1.1
80°-90°	3.9	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°	757.3	68.7
0°-40°	946.0	85.8
0°-60°	1069.0	96.9
0°-90°	1103.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1103.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2850	
5°	2594	224
15°	1057	304
25°	498	229
35°	301	189
45°	126	96
55°	28	27
65°	18	18
75°	12	12
85°	4	4
90°	0	



TEST NUMBER: P642818

CATALOG NUMBER: ML5615LSNFL259FS1E - 593WB - 900LM - 3500K

CANDELA DISTRIBUTION (FULL):

0°	
0°	2850.4
2.5°	2792.2
5°	2594.5
7.5°	2269.9
10°	1878.7
12.5°	1444.2
15°	1057.3
17.5°	787.7
20°	634.4
22.5°	556.1
25°	498.0
27.5°	441.9
30°	391.2
32.5°	343.6
35°	301.3
37.5°	263.3
40°	222.0
42.5°	171.3
45°	125.8
47.5°	77.2
50°	42.3
52.5°	32.8
55°	28.5
57.5°	26.4
60°	23.3
62.5°	21.1
65°	18.0
67.5°	15.9
70°	14.8
72.5°	12.7
75°	11.6
77.5°	9.5
80°	7.4
82.5°	5.3
85°	4.2
87.5°	1.1
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)