

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: P642833

Luminaire Tested: ML5615LSNFL259FS1E - 594SNB - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642833
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 594SNB - 900LM - 3500K
Description: ML56 RR, 25D TIR OPTIC, 5" SATIN NICKLE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

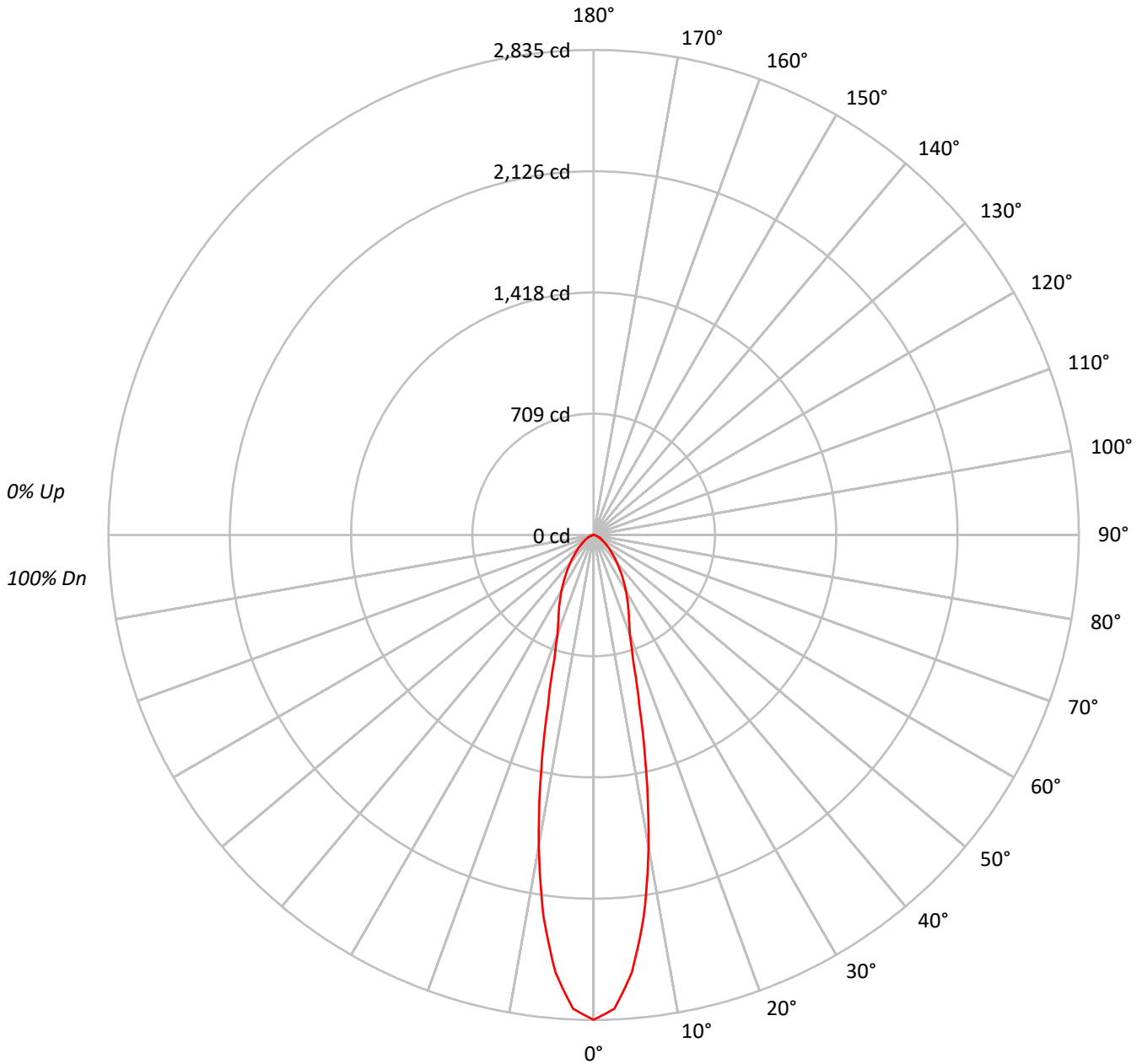
Lumens per Lamp: N/A
Luminaire Lumens: 1154.8 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.43
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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: P642833
CATALOG NUMBER: ML5615LSNFL259FS1E - 594SNB - 900LM - 3500K

Luminous Intensity Polar Plot





TEST NUMBER: P642833

CATALOG NUMBER: ML5615LSNFL259FS1E - 594SNB - 900LM - 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			100																
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92			92																
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85			85																
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78			78																
4	96	88	82	78	94	87	81	77	84	80	76	82	78	75	81	77	74	73			73																
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68			68																
6	86	77	71	67	85	76	71	66	75	70	66	74	69	66	72	68	65	64			64																
7	82	73	67	62	81	72	66	62	71	66	62	70	65	62	69	64	61	60			60																
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57			57																
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54			54																
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	55	52	51			51																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	223782
5°	203368
10°	148213
15°	84014
20°	51656
25°	41783
30°	34192
35°	27494
40°	21774
45°	17103
50°	13362
55°	10474
60°	8336
65°	6706
70°	4870
75°	2593
80°	1455
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17103 cd/sqm



TEST NUMBER: P642833

CATALOG NUMBER: ML5615LSNFL259FS1E - 594SNB - 900LM - 3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.9	19.2
10°-20°	296.3	25.7
20°-30°	221.2	19.2
30°-40°	179.0	15.5
40°-50°	119.5	10.3
50°-60°	69.3	6.0
60°-70°	36.2	3.1
70°-80°	10.4	0.9
80°-90°	1.0	0.1
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°	739.4	64.0
0°-40°	918.4	79.5
0°-60°	1107.2	95.9
0°-90°	1154.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1154.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2835	
5°	2566	222
15°	1028	296
25°	480	221
35°	285	179
45°	153	120
55°	76	69
65°	36	36
75°	8	10
85°	0	1
90°	0	



TEST NUMBER: P642833

CATALOG NUMBER: ML5615LSNFL259FS1E - 594SNB - 900LM - 3500K

CANDELA DISTRIBUTION (FULL):

	0°
0°	2834.8
2.5°	2772.5
5°	2566.4
7.5°	2247.3
10°	1849.0
12.5°	1416.9
15°	1028.0
17.5°	761.8
20°	614.9
22.5°	538.9
25°	479.7
27.5°	425.8
30°	375.1
32.5°	327.5
35°	285.3
37.5°	246.2
40°	211.3
42.5°	180.7
45°	153.2
47.5°	128.9
50°	108.8
52.5°	90.9
55°	76.1
57.5°	63.4
60°	52.8
62.5°	44.4
65°	35.9
67.5°	29.6
70°	21.1
72.5°	13.7
75°	8.5
77.5°	5.3
80°	3.2
82.5°	2.1
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)