

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P642779

Luminaire Tested: ML5615LSNFL259FS1E - 593SNB - 1200LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642779  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSNFL259FS1E - 593SNB - 1200LM - 4000K  
Description: ML56 RR, 25D TIR OPTIC, 5" SATIN NICKLE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

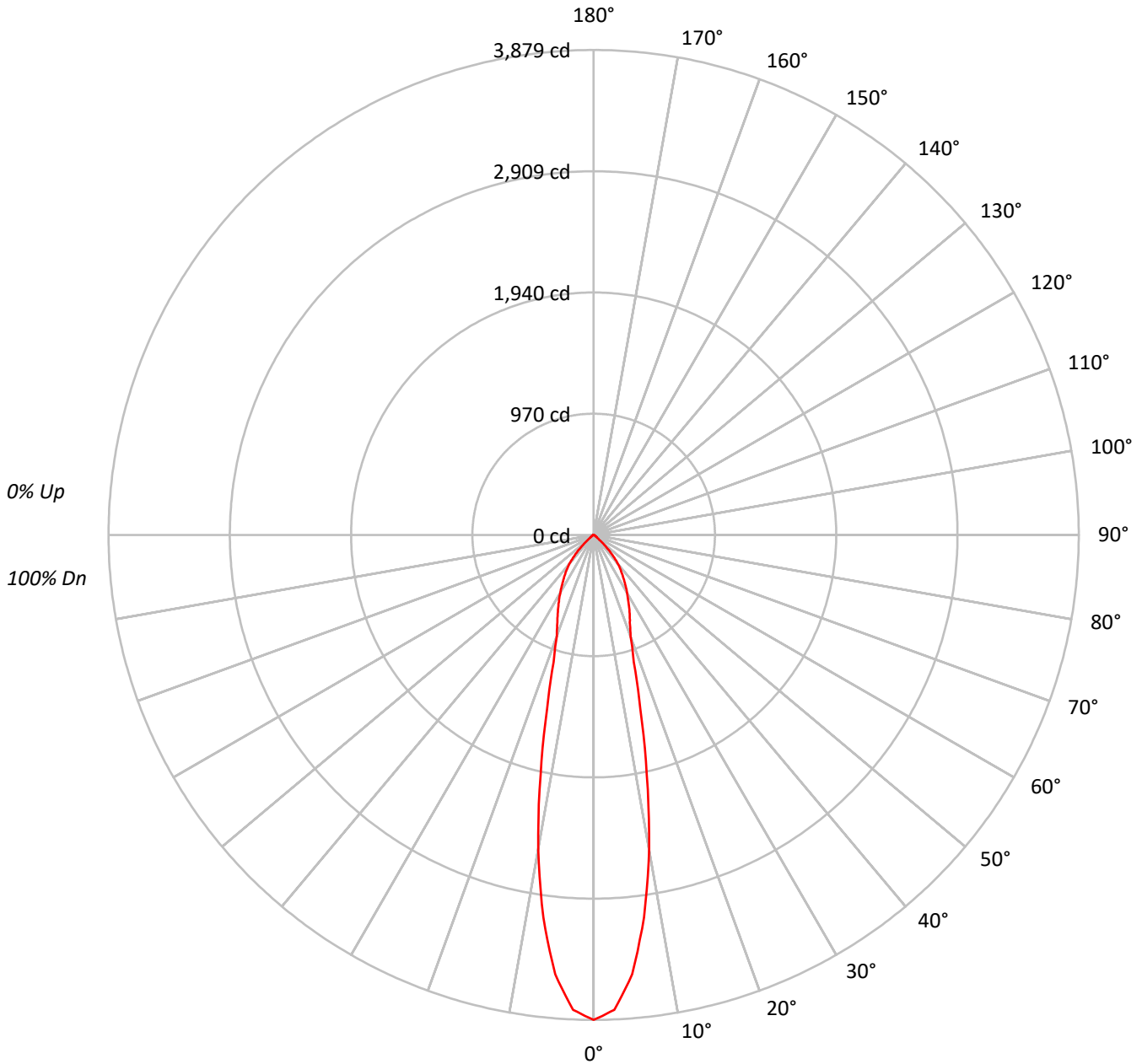
Lumens per Lamp: N/A  
Luminaire Lumens: 1447.8 lumens  
Efficiency: N/A  
Efficacy: 108.0 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 13.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P642779  
CATALOG NUMBER: ML5615LSNFL259FS1E - 593SNB - 1200LM - 4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P642779

CATALOG NUMBER: ML5615LSNFL259FS1E - 593SNB - 1200LM - 4000K

**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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88																			
3	103	97	93	89	101	96	92	88	93	90	87	91	88	85	89	86	84	83																			
4	99	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	78																			
5	94	86	81	77	93	85	80	76	84	79	76	82	78	75	80	77	74	73																			
6	90	82	76	72	88	81	75	72	79	75	71	78	74	71	77	73	70	69																			
7	86	77	72	68	85	77	71	68	75	71	67	74	70	67	73	69	66	65																			
8	82	73	68	64	81	73	68	64	72	67	64	71	67	63	70	66	63	62																			
9	79	70	65	61	78	70	64	61	69	64	61	68	63	60	67	63	60	59																			
10	76	67	61	58	75	66	61	58	66	61	58	65	61	58	64	60	57	56																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	306220
5°	279591
10°	204453
15°	117383
20°	72347
25°	59107
30°	48621
35°	39492
40°	31111
45°	18945
50°	6005
55°	3165
60°	2273
65°	1345
70°	669
75°	427
80°	636
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18945 cd/sqm



TEST NUMBER: P642779

CATALOG NUMBER: ML5615LSNFL259FS1E - 593SNB - 1200LM - 4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	304.8	21.1
10°-20°	412.4	28.5
20°-30°	312.1	21.6
30°-40°	256.5	17.7
40°-50°	129.0	8.9
50°-60°	23.0	1.6
60°-70°	7.4	0.5
70°-80°	2.1	0.1
80°-90°	0.6	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°	1029.3	71.1
0°-40°	1285.8	88.8
0°-60°	1437.8	99.3
0°-90°	1447.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1447.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3879	
5°	3528	305
15°	1436	412
25°	679	312
35°	410	257
45°	170	129
55°	23	23
65°	7	7
75°	1	2
85°	0	1
90°	0	



TEST NUMBER: P642779

CATALOG NUMBER: ML5615LSNFL259FS1E - 593SNB - 1200LM - 4000K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3879.1
2.5°	3801.5
5°	3528.3
7.5°	3084.0
10°	2550.6
12.5°	1962.6
15°	1436.3
17.5°	1066.8
20°	861.2
22.5°	756.3
25°	678.6
27.5°	602.4
30°	533.4
32.5°	468.7
35°	409.8
37.5°	355.1
40°	301.9
42.5°	231.5
45°	169.7
47.5°	103.5
50°	48.9
52.5°	30.2
55°	23.0
57.5°	18.7
60°	14.4
62.5°	10.1
65°	7.2
67.5°	4.3
70°	2.9
72.5°	2.9
75°	1.4
77.5°	1.4
80°	1.4
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)