

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: P642899

Luminaire Tested: ML5615LSNFL259FS1E - 692H - 1200LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642899  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSNFL259FS1E - 692H - 1200LM - 4000K  
Description: ML56 RR, 25D TIR OPTIC, 6" HAZE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1525.5 lumens  
Efficiency: N/A  
Efficacy: 113.8 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

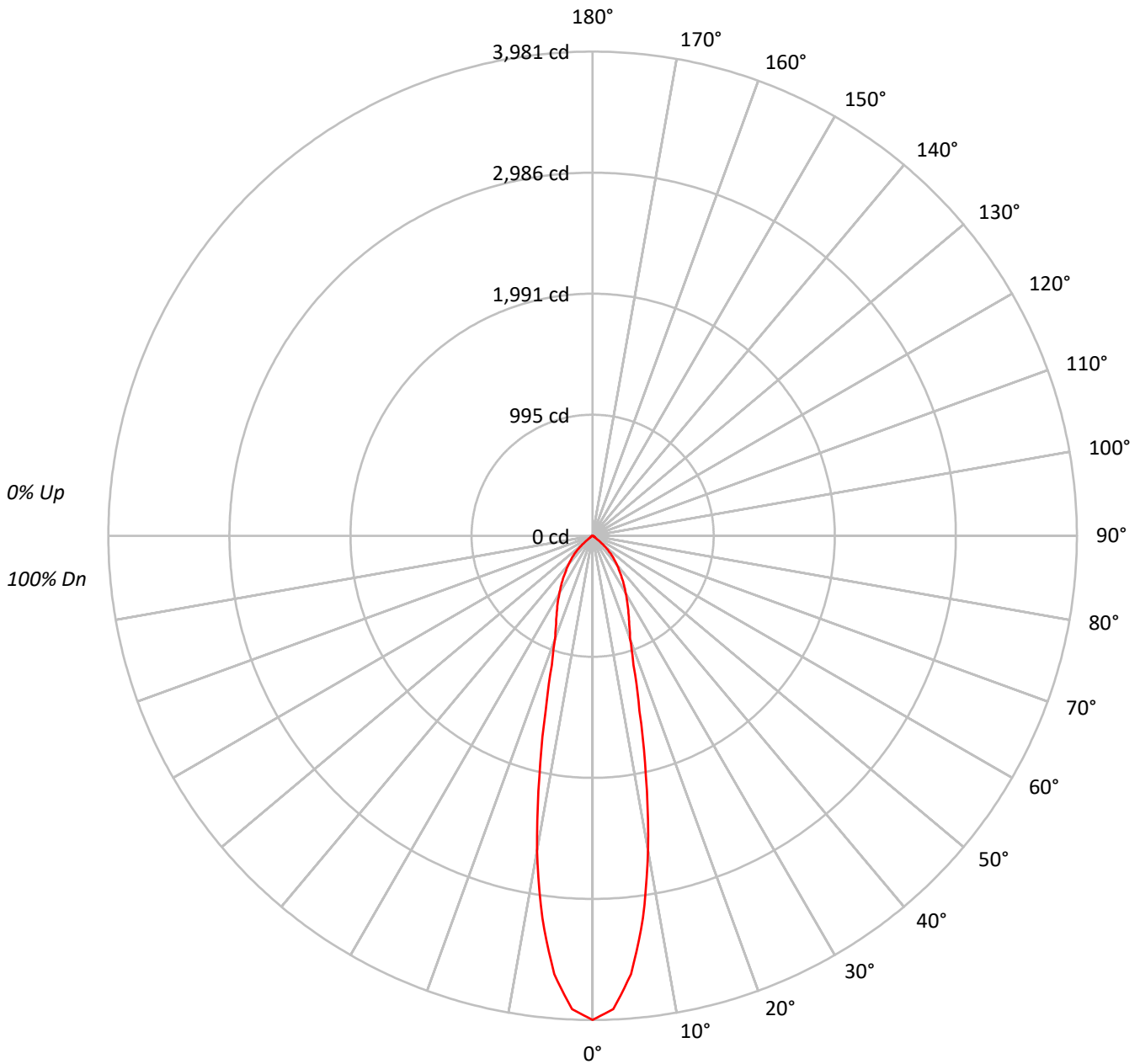
Input Watts (W): 13.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P642899

CATALOG NUMBER: ML5615LSNFL259FS1E - 692H - 1200LM - 4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P642899

CATALOG NUMBER: ML5615LSNFL259FS1E - 692H - 1200LM - 4000K

**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				
1	114	111	109	106	111	109	107	105	105	103	102	101	100	99	98	97	96	94				
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88				
3	103	97	92	88	101	96	91	88	93	89	86	91	87	85	88	86	84	82				
4	98	91	86	82	96	90	85	81	88	84	80	86	82	79	84	81	78	77				
5	94	86	80	76	92	85	79	76	83	78	75	81	77	74	80	76	74	72				
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68				
7	85	77	71	67	84	76	70	67	75	70	66	73	69	66	72	69	66	64				
8	82	73	67	63	81	72	67	63	71	66	63	70	66	62	69	65	62	61				
9	78	69	64	60	77	69	63	60	68	63	60	67	63	59	66	62	59	58				
10	75	66	61	57	74	66	60	57	65	60	57	64	60	57	63	59	56	55				

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

	0°
0°	218228
5°	199042
10°	146262
15°	84558
20°	52522
25°	42190
30°	34505
35°	27914
40°	22027
45°	16614
50°	8588
55°	2475
60°	1579
65°	934
70°	465
75°	297
80°	442
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16614 cd/sqm



TEST NUMBER: P642899

CATALOG NUMBER: ML5615LSNFL259FS1E - 692H - 1200LM - 4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	313.1	20.5
10°-20°	427.6	28.0
20°-30°	321.9	21.1
30°-40°	261.4	17.1
40°-50°	159.6	10.5
50°-60°	32.9	2.2
60°-70°	7.1	0.5
70°-80°	1.7	0.1
80°-90°	0.2	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°	1062.6	69.7
0°-40°	1324.1	86.8
0°-60°	1516.6	99.4
0°-90°	1525.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1525.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3981	
5°	3617	313
15°	1490	428
25°	698	322
35°	417	261
45°	214	160
55°	26	33
65°	7	7
75°	1	2
85°	0	0
90°	0	



TEST NUMBER: P642899

CATALOG NUMBER: ML5615LSNFL259FS1E - 692H - 1200LM - 4000K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3980.8
2.5°	3896.0
5°	3617.0
7.5°	3171.1
10°	2627.5
12.5°	2023.5
15°	1489.9
17.5°	1116.0
20°	900.3
22.5°	783.8
25°	697.5
27.5°	618.4
30°	545.1
32.5°	480.3
35°	417.1
37.5°	359.5
40°	307.8
42.5°	261.7
45°	214.3
47.5°	155.3
50°	100.7
52.5°	47.5
55°	25.9
57.5°	18.7
60°	14.4
62.5°	10.1
65°	7.2
67.5°	2.9
70°	2.9
72.5°	1.4
75°	1.4
77.5°	1.4
80°	1.4
82.5°	0.0
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)