

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: P642902

Luminaire Tested: ML5615LSNFL259FS1E - 692H - 1500LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642902
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 - 1500LM - 3000K
Description: ML56 RR, 25D TIR OPTIC, 6" HAZE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

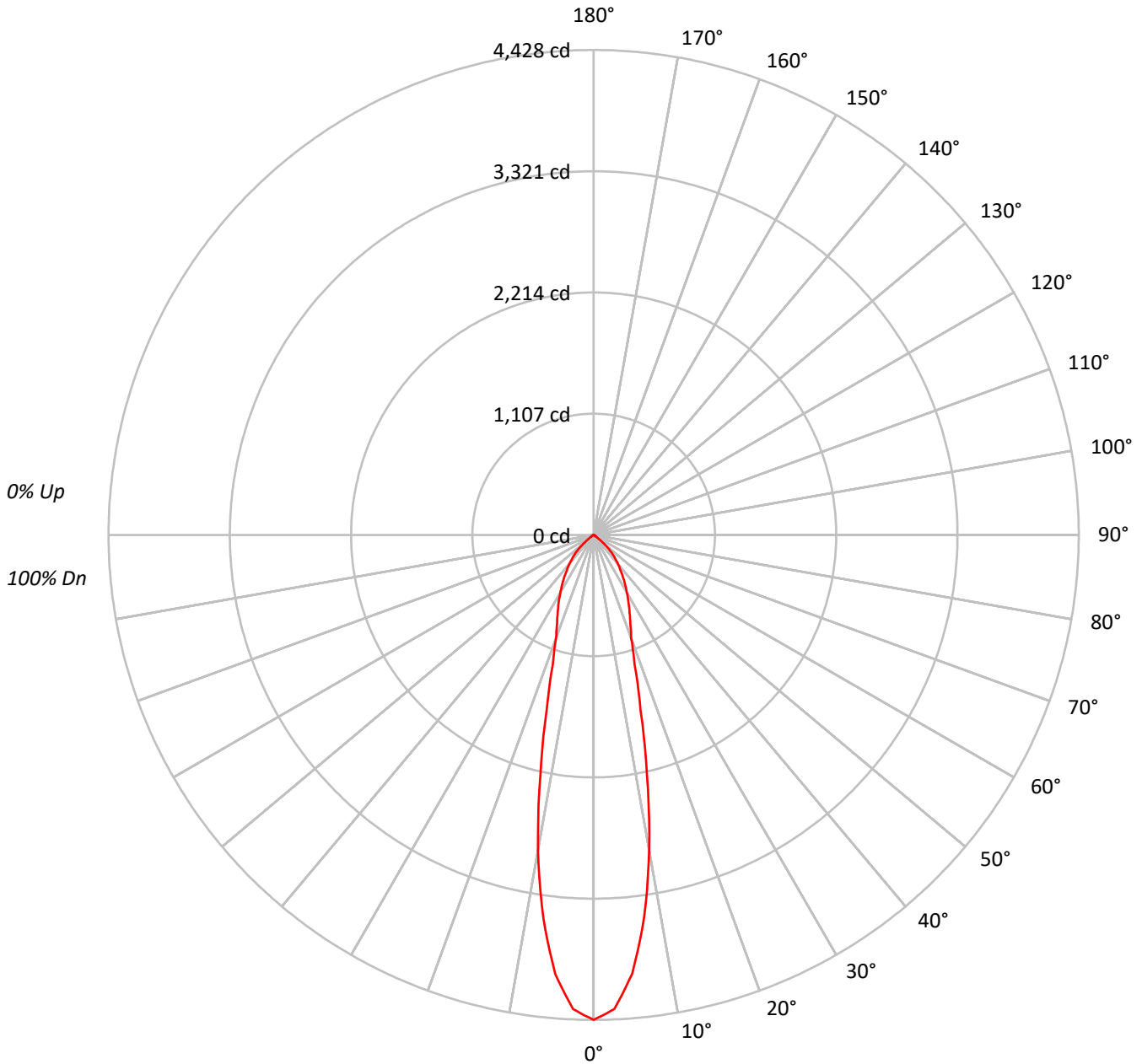
Lumens per Lamp: N/A
Luminaire Lumens: 1696.9 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 17.1
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: P642902
CATALOG NUMBER: ML5615LSNFL259FS1E - 692H - 1500LM - 3000K

Luminous Intensity Polar Plot





TEST NUMBER: P642902

CATALOG NUMBER: ML5615LSNFL259FS1E - 692H - 1500LM - 3000K

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	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	83	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°	242749
5°	221400
10°	162695
15°	94058
20°	58420
25°	46932
30°	38379
35°	31046
40°	24496
45°	18483
50°	9552
55°	2753
60°	1754
65°	1038
70°	513
75°	339
80°	505
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18483 cd/sqm



TEST NUMBER: P642902

CATALOG NUMBER: ML5615LSNFL259FS1E - 692H - 1500LM - 3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.3	20.5
10°-20°	475.7	28.0
20°-30°	358.1	21.1
30°-40°	290.8	17.1
40°-50°	177.5	10.5
50°-60°	36.6	2.2
60°-70°	7.9	0.5
70°-80°	1.9	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°	1182.0	69.7
0°-40°	1472.8	86.8
0°-60°	1686.9	99.4
0°-90°	1696.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1696.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4428	
5°	4023	348
15°	1657	476
25°	776	358
35°	464	291
45°	238	178
55°	29	37
65°	8	8
75°	2	2
85°	0	0
90°	0	



TEST NUMBER: P642902

CATALOG NUMBER: ML5615LSNFL259FS1E - 692H - 1500LM - 3000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	4428.1
2.5°	4333.7
5°	4023.3
7.5°	3527.4
10°	2922.7
12.5°	2250.8
15°	1657.3
17.5°	1241.4
20°	1001.4
22.5°	871.9
25°	775.9
27.5°	687.9
30°	606.3
32.5°	534.3
35°	463.9
37.5°	399.9
40°	342.3
42.5°	291.2
45°	238.4
47.5°	172.8
50°	112.0
52.5°	52.8
55°	28.8
57.5°	20.8
60°	16.0
62.5°	11.2
65°	8.0
67.5°	3.2
70°	3.2
72.5°	1.6
75°	1.6
77.5°	1.6
80°	1.6
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)