

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: P642749

Luminaire Tested: ML5615LSNFL259FS1E - 592W - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642749
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 592W - 1200LM - 4000K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1502.5 lumens
Efficiency: N/A
Efficacy: 112.1 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

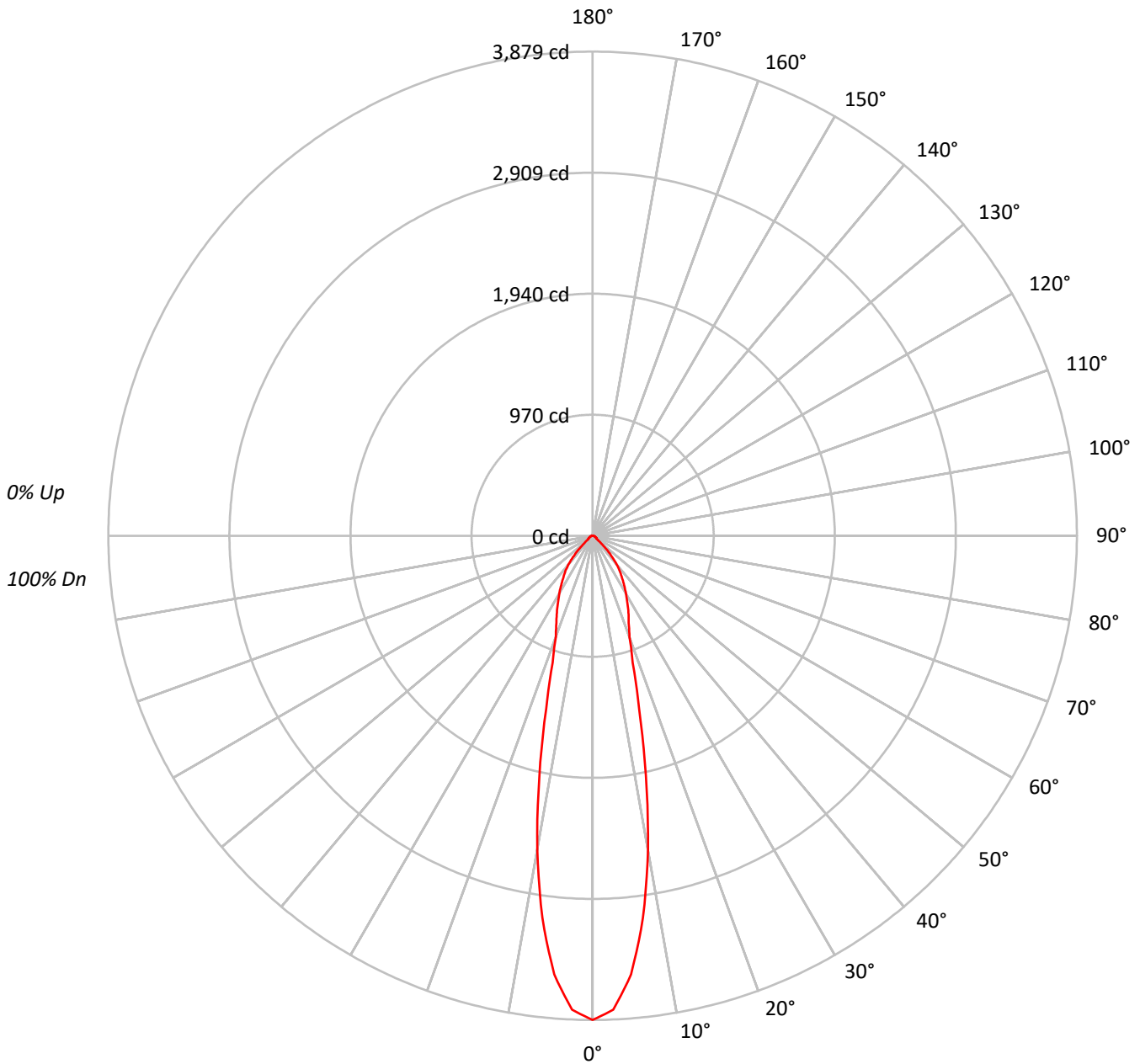
Input Watts (W): 13.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P642749

CATALOG NUMBER: ML5615LSNFL259FS1E - 592W - 1200LM - 4000K

Luminous Intensity Polar Plot





TEST NUMBER: P642749

CATALOG NUMBER: ML5615LSNFL259FS1E - 592W - 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				100															
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93				93															
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86				86															
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81				81															
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	79	77	75				75															
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71				71															
6	88	80	74	70	87	79	73	69	77	73	69	76	72	69	75	71	68	67				67															
7	85	76	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63				63															
8	81	72	66	62	80	71	66	62	70	65	62	69	65	61	68	64	61	60				60															
9	78	68	63	59	76	68	62	59	67	62	59	66	62	58	65	61	58	57				57															
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	63	58	55	54				54															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	306204
5°	279575
10°	204669
15°	117497
20°	72347
25°	59107
30°	48484
35°	39482
40°	31111
45°	19258
50°	7234
55°	5546
60°	5226
65°	4838
70°	4639
75°	4819
80°	4591
85°	3895

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19258 cd/sqm



TEST NUMBER: P642749

CATALOG NUMBER: ML5615LSNFL259FS1E - 592W - 1200LM - 4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.0	20.3
10°-20°	412.7	27.5
20°-30°	311.8	20.8
30°-40°	256.9	17.1
40°-50°	131.4	8.7
50°-60°	37.5	2.5
60°-70°	25.8	1.7
70°-80°	16.5	1.1
80°-90°	4.9	0.3
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°	1029.5	68.5
0°-40°	1286.4	85.6
0°-60°	1455.3	96.9
0°-90°	1502.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1502.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3879	
5°	3528	305
15°	1438	413
25°	679	312
35°	410	257
45°	172	131
55°	40	38
65°	26	26
75°	16	16
85°	4	5
90°	0	



TEST NUMBER: P642749

CATALOG NUMBER: ML5615LSNFL259FS1E - 592W - 1200LM - 4000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	3878.9
2.5°	3801.2
5°	3528.1
7.5°	3088.2
10°	2553.3
12.5°	1966.8
15°	1437.7
17.5°	1065.3
20°	861.2
22.5°	756.2
25°	678.6
27.5°	601.0
30°	531.9
32.5°	468.7
35°	409.7
37.5°	358.0
40°	301.9
42.5°	232.9
45°	172.5
47.5°	106.4
50°	58.9
52.5°	46.0
55°	40.3
57.5°	35.9
60°	33.1
62.5°	28.8
65°	25.9
67.5°	23.0
70°	20.1
72.5°	18.7
75°	15.8
77.5°	12.9
80°	10.1
82.5°	7.2
85°	4.3
87.5°	1.4
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)