

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: P642882

Luminaire Tested: ML5615LSNFL259FS1E - 691WB - 1200LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642882
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 691WB - 1200LM - 3000K
Description: ML56 RR, 25D TIR OPTIC, 6" DEADFRONT TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1411.4 lumens
Efficiency: N/A
Efficacy: 105.3 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

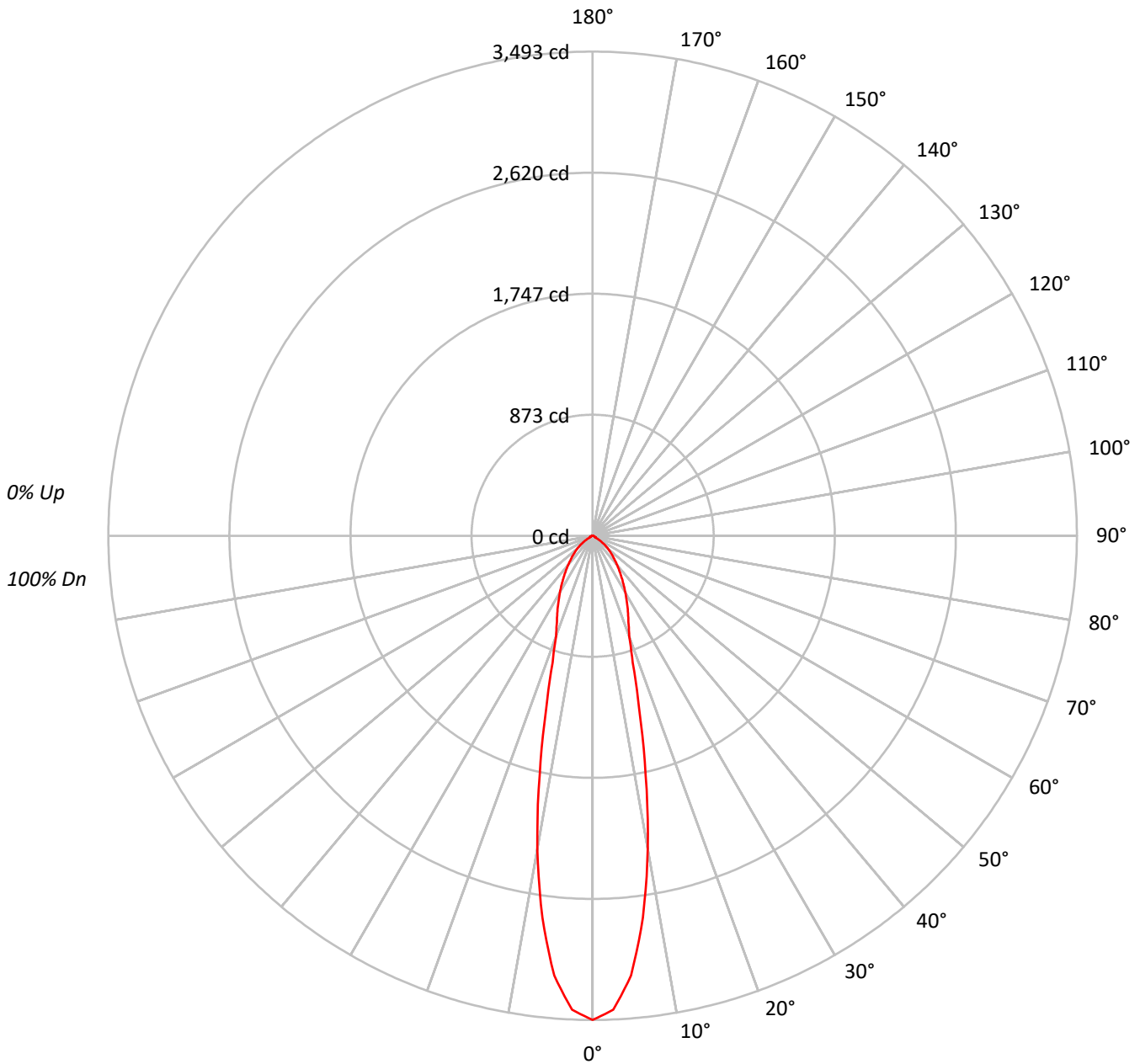
Input Watts (W): 13.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P642882

CATALOG NUMBER: ML5615LSNFL259FS1E - 691WB - 1200LM - 3000K

Luminous Intensity Polar Plot





TEST NUMBER: P642882

CATALOG NUMBER: ML5615LSNFL259FS1E - 691WB - 1200LM - 3000K

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	100	100	100
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	90	88	86	86	86	86
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	86	84	81	80	80	80	80
4	97	89	83	79	95	88	82	78	86	81	77	84	80	77	82	78	76	74	74	74	74
5	92	83	77	73	90	82	77	73	81	76	72	79	75	71	77	74	71	69	69	69	69
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	69	66	65	65	65	65
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61	61	61	61
8	80	70	64	60	78	70	64	60	68	63	60	67	63	59	66	62	59	58	58	58	58
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	63	59	56	55	55	55	55
10	73	63	58	54	72	63	58	54	62	57	54	61	57	54	61	57	53	52	52	52	52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	191470
5°	175236
10°	127659
15°	73383
20°	44926
25°	36353
30°	29808
35°	24286
40°	19551
45°	15630
50°	12315
55°	7961
60°	3136
65°	2361
70°	1875
75°	1652
80°	1642
85°	1635

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15630 cd/sqm



TEST NUMBER: P642882

CATALOG NUMBER: ML5615LSNFL259FS1E - 691WB - 1200LM - 3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.6	19.5
10°-20°	370.7	26.3
20°-30°	276.9	19.6
30°-40°	227.6	16.1
40°-50°	156.9	11.1
50°-60°	75.3	5.3
60°-70°	18.1	1.3
70°-80°	8.4	0.6
80°-90°	2.8	0.2
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°	922.3	65.3
0°-40°	1149.9	81.5
0°-60°	1382.1	97.9
0°-90°	1411.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1411.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3493	
5°	3184	275
15°	1293	371
25°	601	277
35°	363	228
45°	202	157
55°	83	75
65°	18	18
75°	8	8
85°	3	3
90°	0	



TEST NUMBER: P642882

CATALOG NUMBER: ML5615LSNFL259FS1E - 691WB - 1200LM - 3000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	3492.7
2.5°	3422.4
5°	3184.4
7.5°	2777.2
10°	2293.3
12.5°	1767.8
15°	1293.0
17.5°	957.4
20°	770.1
22.5°	672.5
25°	601.0
27.5°	533.3
30°	470.9
32.5°	413.7
35°	362.9
37.5°	316.1
40°	273.2
42.5°	235.4
45°	201.6
47.5°	171.7
50°	144.4
52.5°	117.1
55°	83.3
57.5°	53.3
60°	28.6
62.5°	20.8
65°	18.2
67.5°	14.3
70°	11.7
72.5°	9.1
75°	7.8
77.5°	6.5
80°	5.2
82.5°	3.9
85°	2.6
87.5°	1.3
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)