

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: P642747

Luminaire Tested: ML5615LSNFL259FS1E - 592W - 1200LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642747
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 - 3000K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1359.4 lumens
Efficiency: N/A
Efficacy: 101.4 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

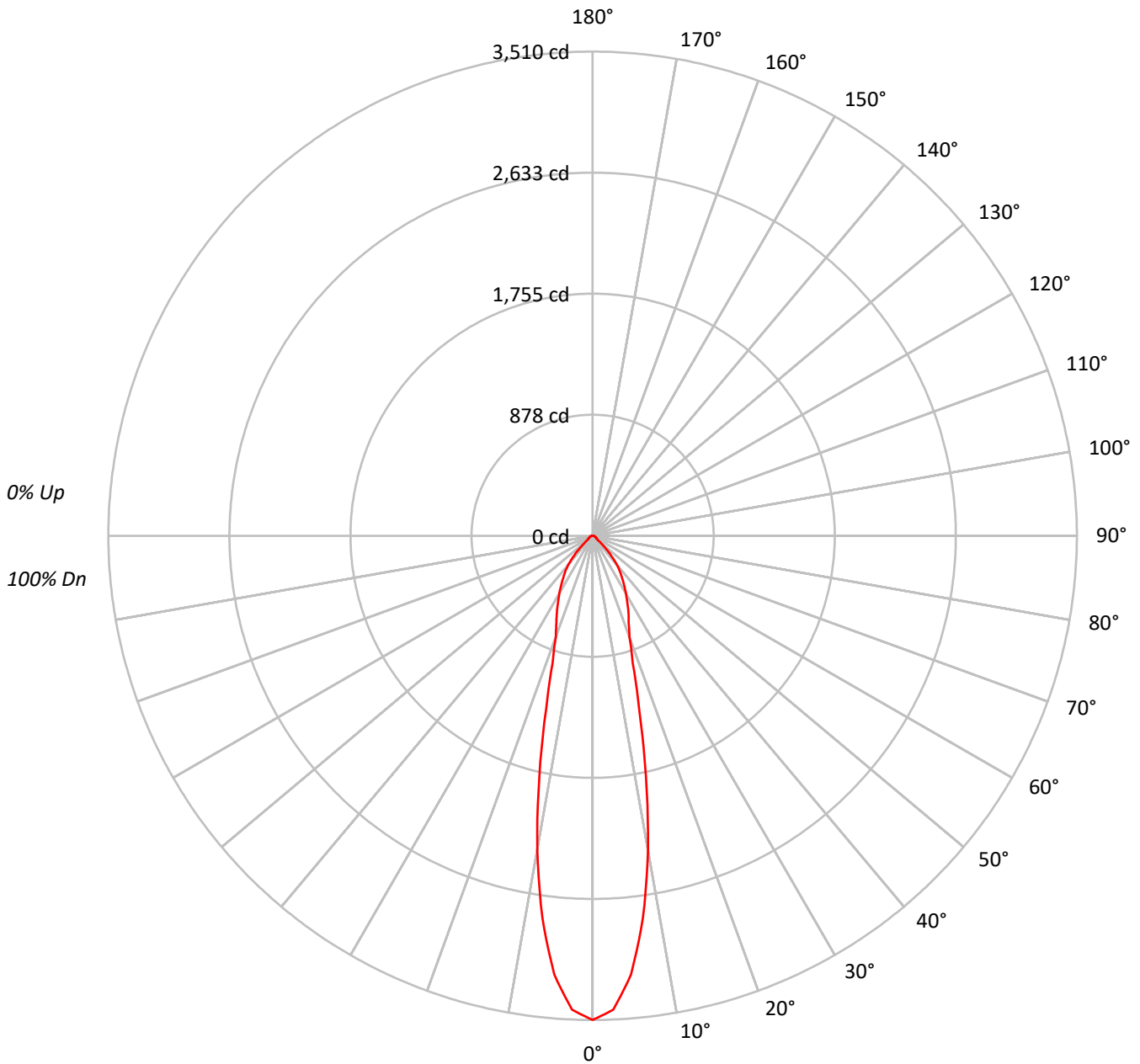
Input Watts (W): 13.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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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	
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°	277043
5°	252950
10°	185183
15°	106309
20°	65458
25°	53480
30°	43872
35°	35724
40°	28153
45°	17427
50°	6546
55°	5010
60°	4721
65°	4371
70°	4201
75°	4362
80°	4137
85°	3532

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17427 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.0	20.3
10°-20°	373.4	27.5
20°-30°	282.1	20.8
30°-40°	232.4	17.1
40°-50°	118.9	8.7
50°-60°	33.9	2.5
60°-70°	23.3	1.7
70°-80°	14.9	1.1
80°-90°	4.4	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°	931.5	68.5
0°-40°	1163.9	85.6
0°-60°	1316.7	96.9
0°-90°	1359.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1359.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3510	
5°	3192	276
15°	1301	373
25°	614	282
35°	371	232
45°	156	119
55°	36	34
65°	23	23
75°	14	15
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3509.5
2.5°	3439.3
5°	3192.1
7.5°	2794.1
10°	2310.2
12.5°	1779.5
15°	1300.8
17.5°	963.9
20°	779.2
22.5°	684.2
25°	614.0
27.5°	543.7
30°	481.3
32.5°	424.1
35°	370.7
37.5°	323.9
40°	273.2
42.5°	210.7
45°	156.1
47.5°	96.3
50°	53.3
52.5°	41.6
55°	36.4
57.5°	32.5
60°	29.9
62.5°	26.0
65°	23.4
67.5°	20.8
70°	18.2
72.5°	16.9
75°	14.3
77.5°	11.7
80°	9.1
82.5°	6.5
85°	3.9
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

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— 0°-180°

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