

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: P642759

Luminaire Tested: ML5615LSNFL259FS1E - 592W - 900LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642759
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 - 900LM - 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: 1188.0 lumens
Efficiency: N/A
Efficacy: 113.1 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

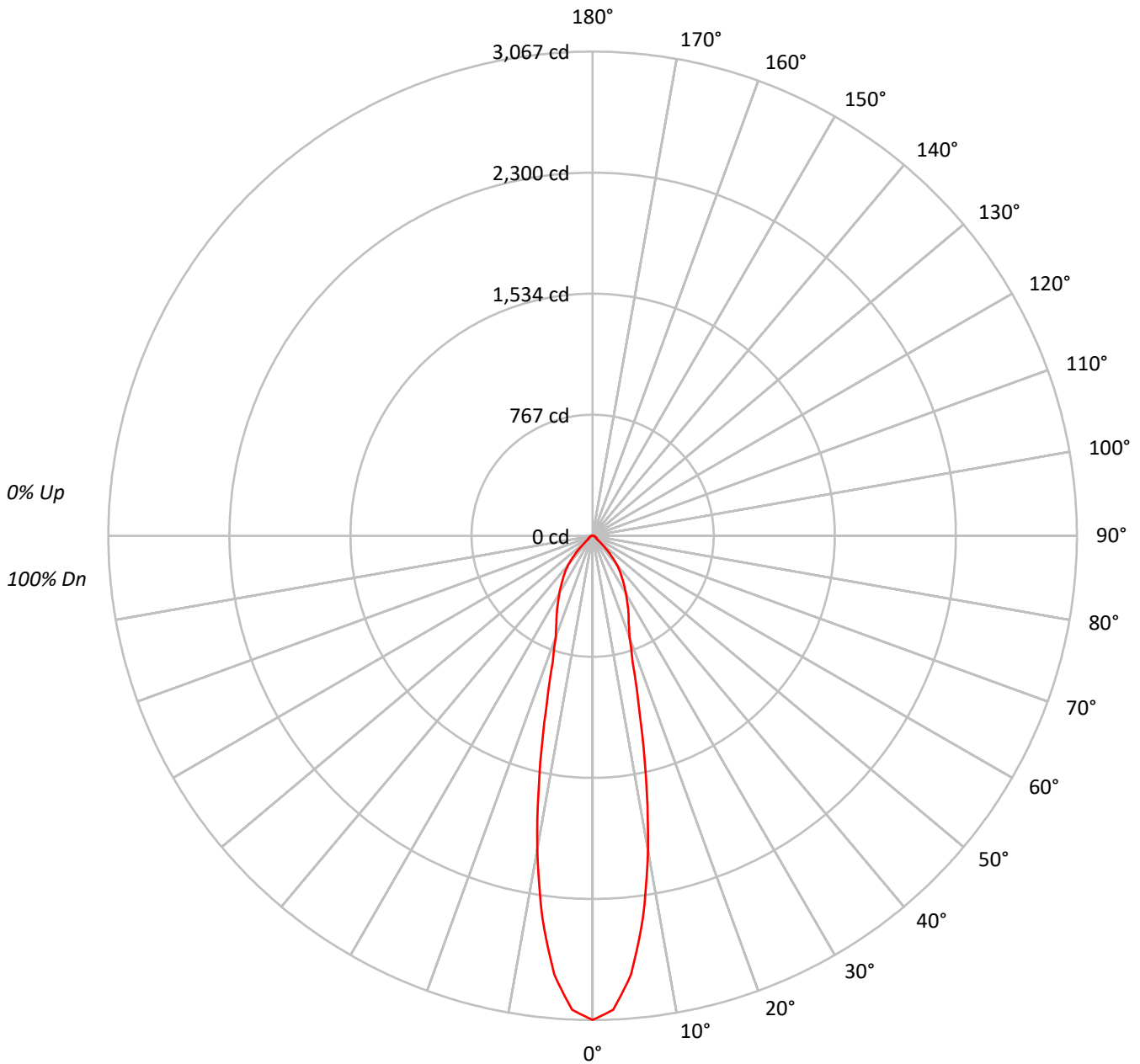
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	242104
5°	221047
10°	161824
15°	92898
20°	57200
25°	46730
30°	38339
35°	31224
40°	24598
45°	15228
50°	5723
55°	4377
60°	4121
65°	3829
70°	3670
75°	3813
80°	3637
85°	3080

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15228 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.2	20.3
10°-20°	326.3	27.5
20°-30°	246.5	20.8
30°-40°	203.1	17.1
40°-50°	103.9	8.7
50°-60°	29.7	2.5
60°-70°	20.4	1.7
70°-80°	13.0	1.1
80°-90°	3.9	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°	814.0	68.5
0°-40°	1017.1	85.6
0°-60°	1150.7	96.9
0°-90°	1188.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1188.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3067	
5°	2790	241
15°	1137	326
25°	536	247
35°	324	203
45°	136	104
55°	32	30
65°	20	20
75°	12	13
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3066.9
2.5°	3005.5
5°	2789.5
7.5°	2441.7
10°	2018.8
12.5°	1555.1
15°	1136.7
17.5°	842.3
20°	680.9
22.5°	597.9
25°	536.5
27.5°	475.2
30°	420.6
32.5°	370.6
35°	324.0
37.5°	283.0
40°	238.7
42.5°	184.2
45°	136.4
47.5°	84.1
50°	46.6
52.5°	36.4
55°	31.8
57.5°	28.4
60°	26.1
62.5°	22.7
65°	20.5
67.5°	18.2
70°	15.9
72.5°	14.8
75°	12.5
77.5°	10.2
80°	8.0
82.5°	5.7
85°	3.4
87.5°	1.1
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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(END OF REPORT)