

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: P640943

Luminaire Tested: ML5612LSNFL2597FS1E - 592W - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640943
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: ML5612LSNFL2597FS1E - 592W - 900LM - 3500K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1204.7 lumens
Efficiency: N/A
Efficacy: 90.6 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

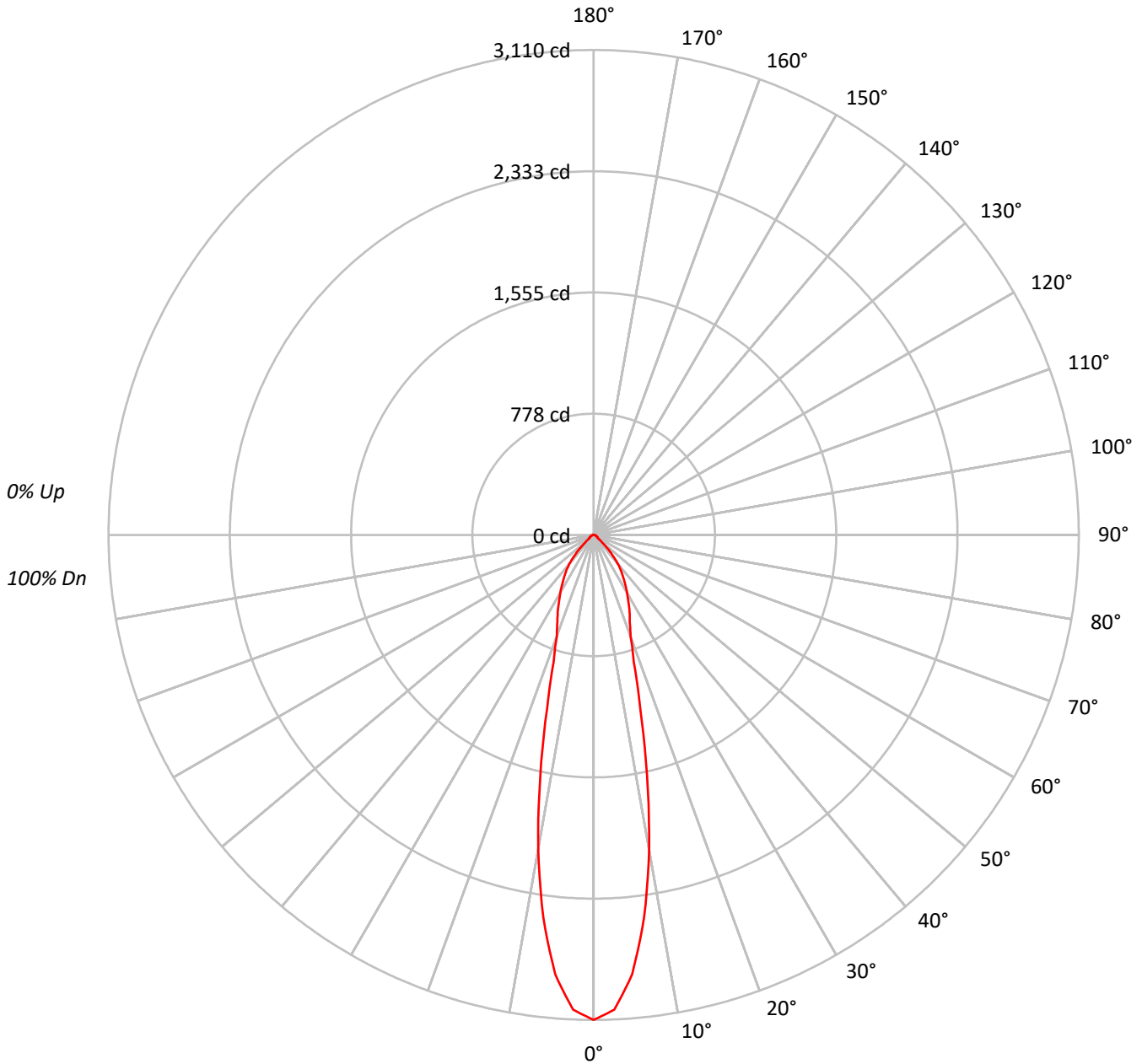
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	245498
5°	224145
10°	164093
15°	94205
20°	57999
25°	47392
30°	38877
35°	31657
40°	24948
45°	15440
50°	5809
55°	4445
60°	4184
65°	3867
70°	3716
75°	3874
80°	3682
85°	3170

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15440 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.6	20.3
10°-20°	330.8	27.5
20°-30°	250.0	20.8
30°-40°	206.0	17.1
40°-50°	105.4	8.7
50°-60°	30.1	2.5
60°-70°	20.7	1.7
70°-80°	13.2	1.1
80°-90°	4.0	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°	825.4	68.5
0°-40°	1031.4	85.6
0°-60°	1166.8	96.9
0°-90°	1204.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1204.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3110	
5°	2829	245
15°	1153	331
25°	544	250
35°	328	206
45°	138	105
55°	32	30
65°	21	21
75°	13	13
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3109.9
2.5°	3047.6
5°	2828.6
7.5°	2475.9
10°	2047.1
12.5°	1576.8
15°	1152.7
17.5°	854.1
20°	690.4
22.5°	606.3
25°	544.1
27.5°	481.8
30°	426.5
32.5°	375.8
35°	328.5
37.5°	287.0
40°	242.1
42.5°	186.7
45°	138.3
47.5°	85.3
50°	47.3
52.5°	36.9
55°	32.3
57.5°	28.8
60°	26.5
62.5°	23.1
65°	20.7
67.5°	18.4
70°	16.1
72.5°	15.0
75°	12.7
77.5°	10.4
80°	8.1
82.5°	5.8
85°	3.5
87.5°	1.2
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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