

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P640944

Luminaire Tested: ML5612LSNFL2597FS1E - 592W - 900LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640944
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 - 4000K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1296.1 lumens
Efficiency: N/A
Efficacy: 97.4 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

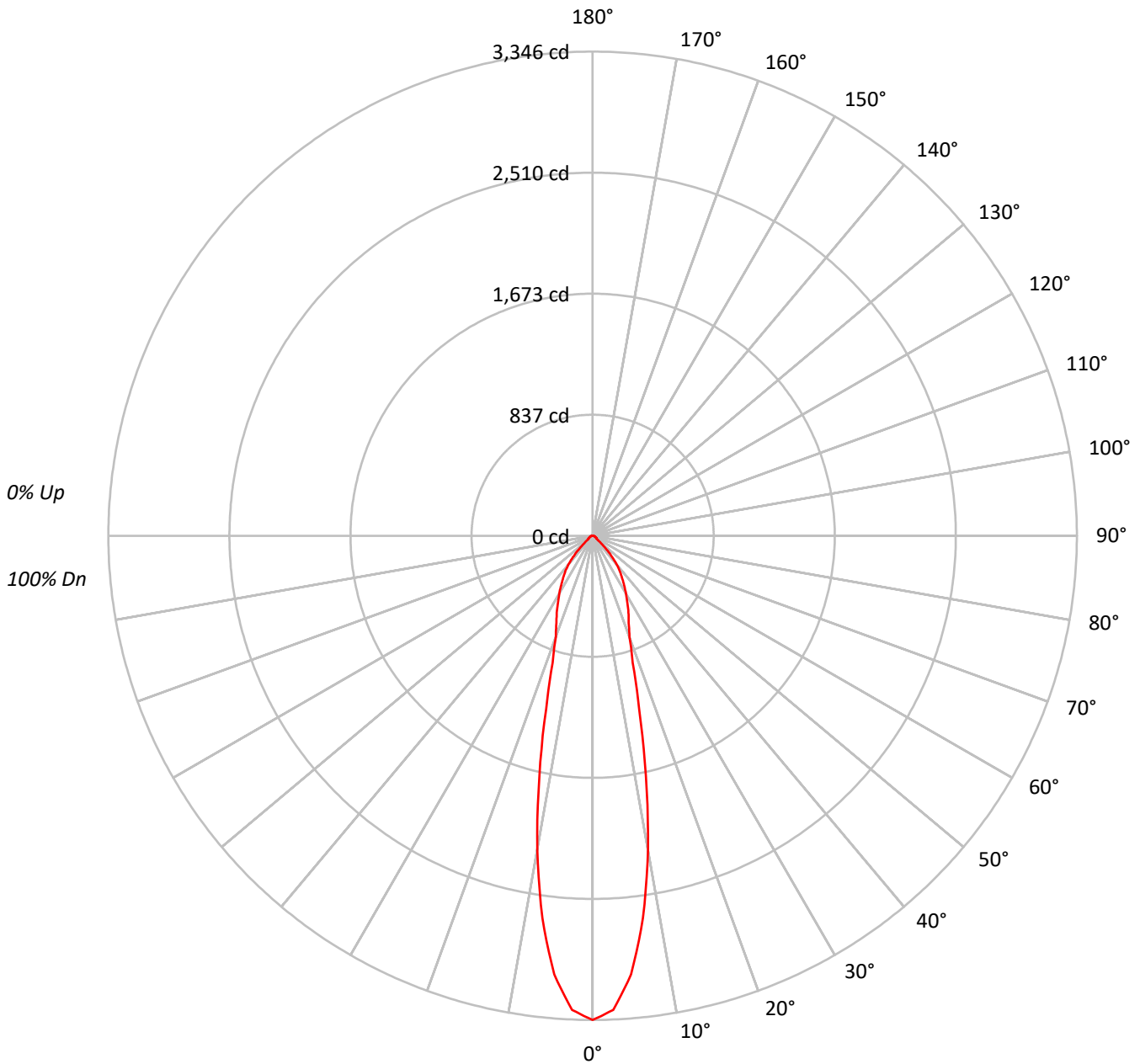
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	264144
5°	241174
10°	176558
15°	101356
20°	62409
25°	50989
30°	41830
35°	34066
40°	26834
45°	16612
50°	6239
55°	4776
60°	4500
65°	4165
70°	4016
75°	4148
80°	3955
85°	3351

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16612 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.1	20.3
10°-20°	356.0	27.5
20°-30°	269.0	20.8
30°-40°	221.6	17.1
40°-50°	113.4	8.7
50°-60°	32.4	2.5
60°-70°	22.2	1.7
70°-80°	14.2	1.1
80°-90°	4.2	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°	888.1	68.5
0°-40°	1109.7	85.6
0°-60°	1255.4	96.9
0°-90°	1296.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1296.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3346	
5°	3044	263
15°	1240	356
25°	585	269
35°	354	222
45°	149	113
55°	35	32
65°	22	22
75°	14	14
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3346.1
2.5°	3279.1
5°	3043.5
7.5°	2664.0
10°	2202.6
12.5°	1696.6
15°	1240.2
17.5°	919.0
20°	742.9
22.5°	652.3
25°	585.4
27.5°	518.4
30°	458.9
32.5°	404.3
35°	353.5
37.5°	308.8
40°	260.4
42.5°	200.9
45°	148.8
47.5°	91.8
50°	50.8
52.5°	39.7
55°	34.7
57.5°	31.0
60°	28.5
62.5°	24.8
65°	22.3
67.5°	19.8
70°	17.4
72.5°	16.1
75°	13.6
77.5°	11.2
80°	8.7
82.5°	6.2
85°	3.7
87.5°	1.2
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)