

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P34502

Luminaire Tested: **SGI-G-12-4-LD4-1-LO-CA125-FA**

Test Date: 10/01/15

**Test Information**

Test Method: LM-79-08  
Report Number: P34502  
Test Lab: INNOVATION CENTER-P3  
Test Date: 10/01/15  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: SGI-G-12-4-LD4-1-LO-CA125-FA  
Description: FAILSAFE SGI LED 1X4 FIXTURE.  
Light Source: (84) NICHIA ELM 3500K LED  
2UT217042A8404A  
Ballast/Driver: (1) OSRAM ELECTRONIC DRIVER  
OT50W/PRG1400C/UNV/DIM/L

**Summary**

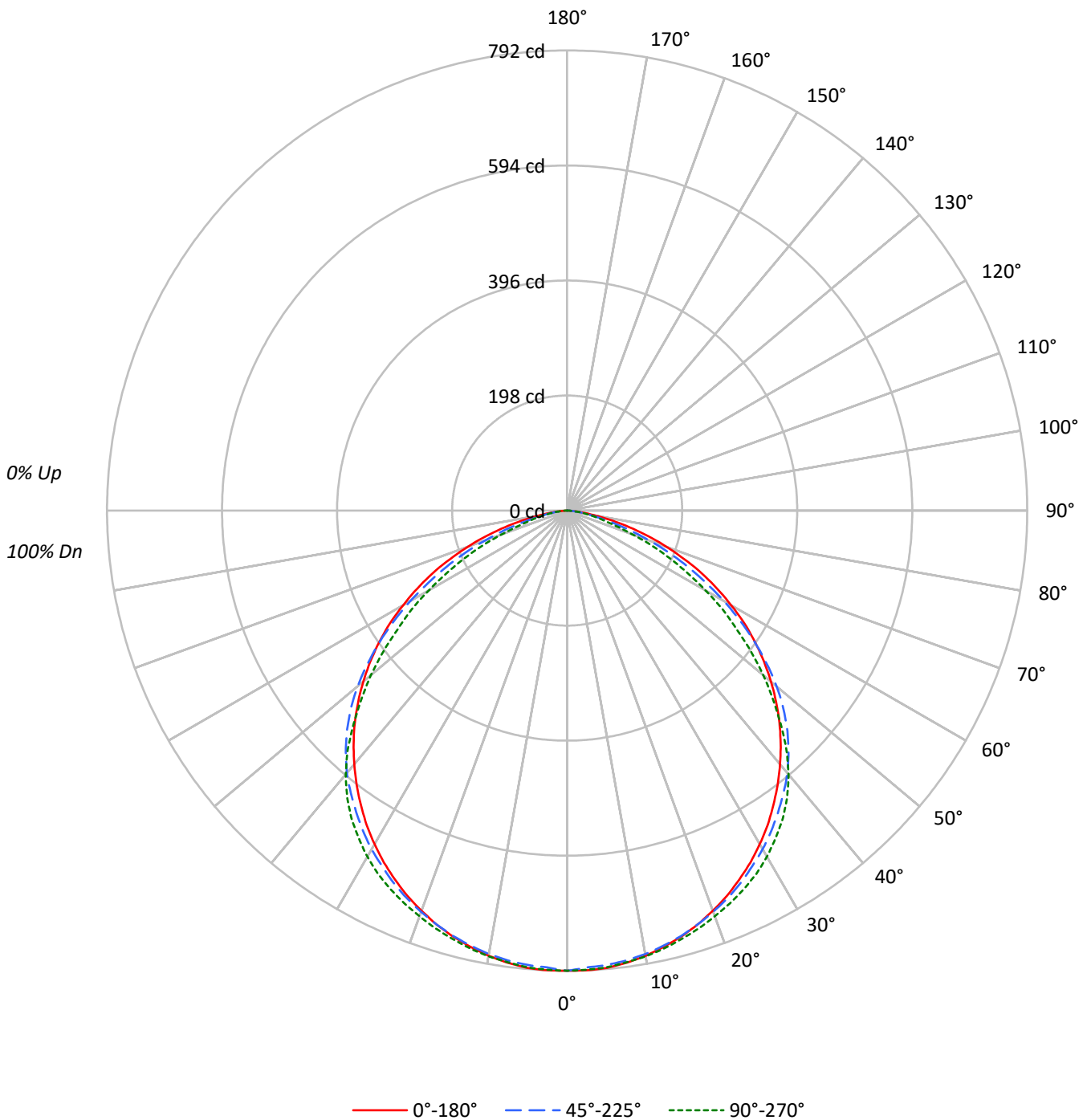
Lumens per Lamp: N/A  
Luminaire Lumens: 2098.1 lumens  
Efficiency: N/A  
Efficacy: 87.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.38  
Luminous Opening: Rectangular (W 0.75' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.9  
Input Voltage (V): 120.1  
Input Current (Ain): 0.200  
Voltage Rise (V): NR  
Power Factor: 0.9967  
Total Harmonic Distortion (THDi): 7.19%  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: 5 HR  
Ambient Temperature (°C): 25.0  
Test Distance: 25 FT



TEST NUMBER: P34502  
CATALOG NUMBER: SGI-G-12-4-LD4-1-LO-CA125-FA

### Luminous Intensity Polar Plot





TEST NUMBER: P34502

CATALOG NUMBER: SGI-G-12-4-LD4-1-LO-CA125-FA

**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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	105	101	98	107	103	100	96	99	96	93		95	93	90		91	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	72
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72	68	64	62
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49		60	54	49		58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43		54	48	43		53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38		49	43	38		48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34		45	39	34		44	38	34	32
9	58	45	36	31	56	44	36	31	43	36	31		42	35	31		41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28		39	32	28		38	32	28	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2965	2965	2965
5°	2969	2950	2965
10°	2958	2946	2962
15°	2942	2938	2957
20°	2920	2928	2960
25°	2896	2921	2970
30°	2866	2909	2974
35°	2829	2893	2957
40°	2786	2884	2898
45°	2737	2838	2753
50°	2668	2743	2569
55°	2578	2572	2324
60°	2441	2336	2059
65°	2268	2029	1736
70°	1992	1642	1314
75°	1606	1172	926
80°	1078	733	712
85°	515	473	473



TEST NUMBER: P34502

CATALOG NUMBER: SGI-G-12-4-LD4-1-LO-CA125-FA

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.9	3.6
10°-20°	214.6	10.2
20°-30°	326.8	15.6
30°-40°	396.1	18.9
40°-50°	405.2	19.3
50°-60°	344.0	16.4
60°-70°	227.5	10.8
70°-80°	93.5	4.5
80°-90°	15.4	0.7
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°	616.4	29.4
0°-40°	1012.5	48.3
0°-60°	1761.7	84.0
0°-90°	2098.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2098.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	792	792	792	792	792	
5°	790	789	785	789	789	75
15°	759	759	758	763	763	214
25°	701	703	707	716	719	323
35°	619	623	633	646	647	387
45°	517	523	536	529	520	398
55°	395	404	394	369	356	352
65°	256	262	229	205	196	252
75°	111	104	81	65	64	119
85°	12	10	11	11	11	18
90°	0	0	0	0	0	



TEST NUMBER: P34502

CATALOG NUMBER: SGI-G-12-4-LD4-1-LO-CA125-FA

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	792	792	792	792	792
2.5°	792	791	787	791	791
5°	790	789	785	789	789
7.5°	785	784	781	785	784
10°	778	778	775	780	779
12.5°	769	769	767	772	772
15°	759	759	758	763	763
17.5°	747	747	747	754	754
20°	733	734	735	742	743
22.5°	718	719	722	730	732
25°	701	703	707	716	719
27.5°	683	685	690	702	705
30°	663	666	673	685	688
32.5°	642	645	654	667	668
35°	619	623	633	646	647
37.5°	595	599	612	622	622
40°	570	574	590	595	593
42.5°	544	550	564	565	559
45°	517	523	536	529	520
47.5°	488	494	505	491	480
50°	458	465	471	449	441
52.5°	427	435	433	410	399
55°	395	404	394	369	356
57.5°	362	370	353	328	318
60°	326	335	312	286	275
62.5°	291	299	270	244	234
65°	256	262	229	205	196
67.5°	218	221	190	166	158
70°	182	179	150	128	120
72.5°	146	141	114	94	87
75°	111	104	81	65	64
77.5°	80	72	52	49	48
80°	50	44	34	34	33
82.5°	28	22	21	21	21
85°	12	10	11	11	11
87.5°	3	4	5	5	5
90°	0	0	0	0	0

(END OF REPORT)