

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: P34503

Luminaire Tested: **SGI-G-12-4-LD4-2-HI-CA125-FA**

Test Date: 10/02/15

Test Information

Test Method: LM-79-08
Report Number: P34503
Test Lab: INNOVATION CENTER-P3
Test Date: 10/02/15
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: SGI-G-12-4-LD4-2-HI-CA125-FA
Description: FAILSAFE SGI LED 1X4 FIXTURE.
Light Source: (168) NICHIA ELM 3500K LED
2UT217042A8404A
Ballast/Driver: (2) OSRAM ELECTRONIC DRIVER
OT50W/PRG1400C/UNV/DIM/L

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6630.1 lumens
Efficiency: N/A
Efficacy: 73.6 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

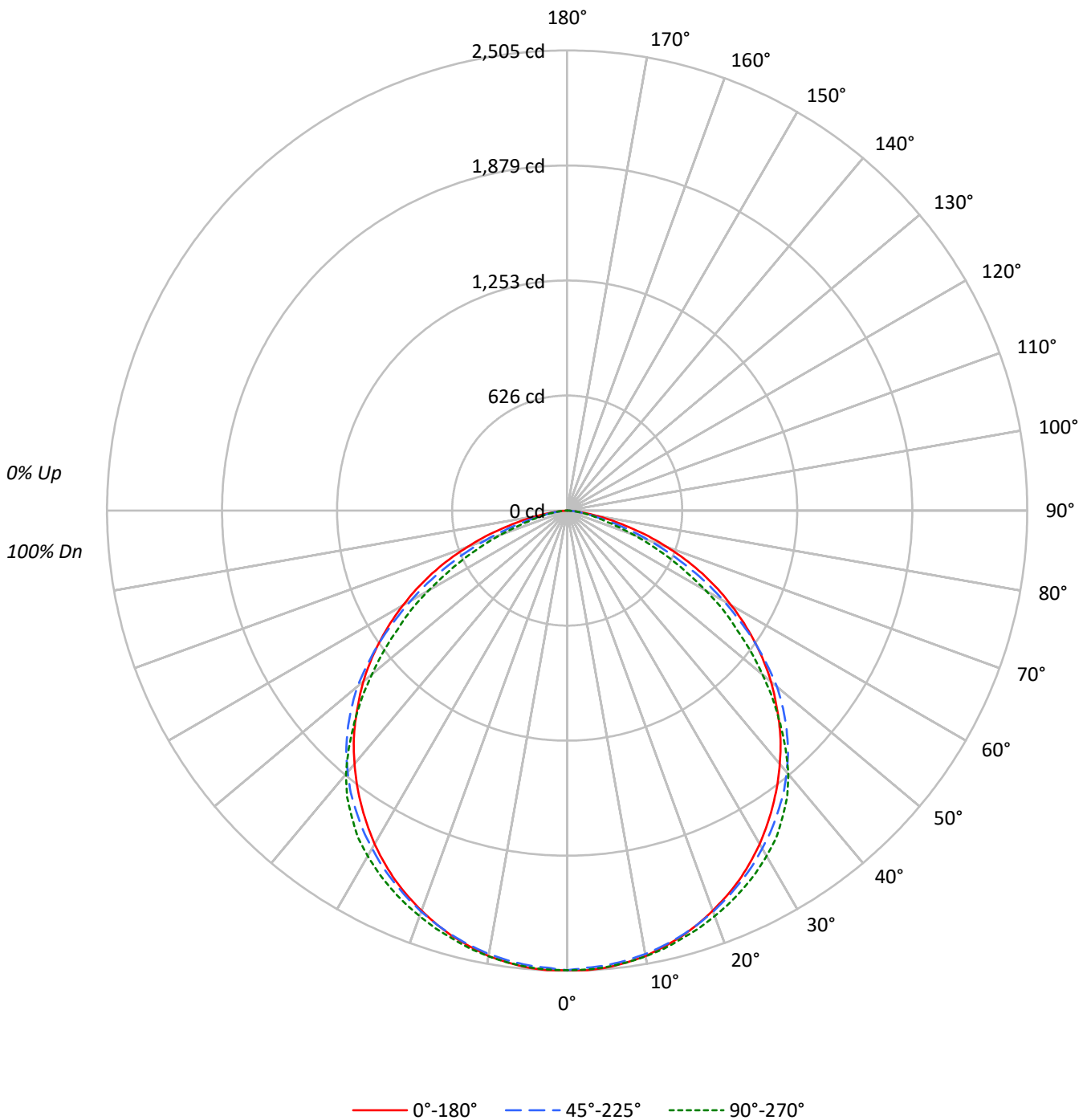
Input Watts (W): 90.1
Input Voltage (V): 120.0
Input Current (Ain): 0.753
Voltage Rise (V): NR
Power Factor: 0.9993
Total Harmonic Distortion (THDi): 7.54%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 5 HR
Ambient Temperature (°C): 25.0
Test Distance: 25 FT



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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	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°	9367	9367	9367
5°	9384	9336	9373
10°	9360	9318	9367
15°	9306	9291	9353
20°	9235	9255	9359
25°	9163	9220	9377
30°	9061	9182	9386
35°	8935	9146	9333
40°	8802	9086	9154
45°	8641	8948	8683
50°	8440	8679	8079
55°	8146	8120	7343
60°	7728	7376	6522
65°	7193	6405	5484
70°	6283	5189	4214
75°	5020	3674	2922
80°	3407	2329	2264
85°	1546	1504	1418



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.8	3.6
10°-20°	678.7	10.2
20°-30°	1032.6	15.6
30°-40°	1251.8	18.9
40°-50°	1279.4	19.3
50°-60°	1086.8	16.4
60°-70°	719.7	10.9
70°-80°	295.5	4.5
80°-90°	48.7	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°	1948.2	29.4
0°-40°	3199.9	48.3
0°-60°	5566.1	84.0
0°-90°	6630.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6630.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2502	2502	2502	2502	2502	
5°	2497	2494	2484	2495	2494	237
15°	2401	2400	2397	2415	2413	677
25°	2218	2220	2232	2265	2270	1022
35°	1955	1968	2001	2044	2042	1223
45°	1632	1651	1690	1668	1640	1258
55°	1248	1276	1244	1167	1125	1113
65°	812	825	723	647	619	800
75°	347	331	254	206	202	376
85°	36	33	35	34	33	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2502	2502	2502	2502	2502
2.5°	2505	2502	2491	2502	2501
5°	2497	2494	2484	2495	2494
7.5°	2482	2479	2470	2482	2481
10°	2462	2458	2451	2464	2464
12.5°	2432	2433	2426	2441	2442
15°	2401	2400	2397	2415	2413
17.5°	2362	2363	2362	2382	2384
20°	2318	2319	2323	2346	2349
22.5°	2270	2272	2280	2309	2312
25°	2218	2220	2232	2265	2270
27.5°	2159	2164	2181	2216	2224
30°	2096	2102	2124	2164	2171
32.5°	2027	2037	2066	2107	2116
35°	1955	1968	2001	2044	2042
37.5°	1880	1895	1935	1964	1967
40°	1801	1818	1859	1882	1873
42.5°	1720	1735	1780	1784	1760
45°	1632	1651	1690	1668	1640
47.5°	1540	1565	1594	1547	1519
50°	1449	1473	1490	1422	1387
52.5°	1350	1374	1367	1294	1260
55°	1248	1276	1244	1167	1125
57.5°	1141	1173	1112	1029	1009
60°	1032	1061	985	903	871
62.5°	925	945	858	771	739
65°	812	825	723	647	619
67.5°	694	699	599	528	497
70°	574	566	474	407	385
72.5°	465	447	356	296	279
75°	347	331	254	206	202
77.5°	248	229	167	153	153
80°	158	137	108	107	105
82.5°	87	72	66	67	65
85°	36	33	35	34	33
87.5°	9	13	15	17	16
90°	0	0	0	0	0

(END OF REPORT)