

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: P34500

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

Test Date: 10/01/15

Test Information

Test Method: LM-79-08
Report Number: P34500
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-HI-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: 3405.0 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.38
Luminous Opening: Rectangular (W 0.75' x L: 3.83' x H: 0')
CIE Type: Direct

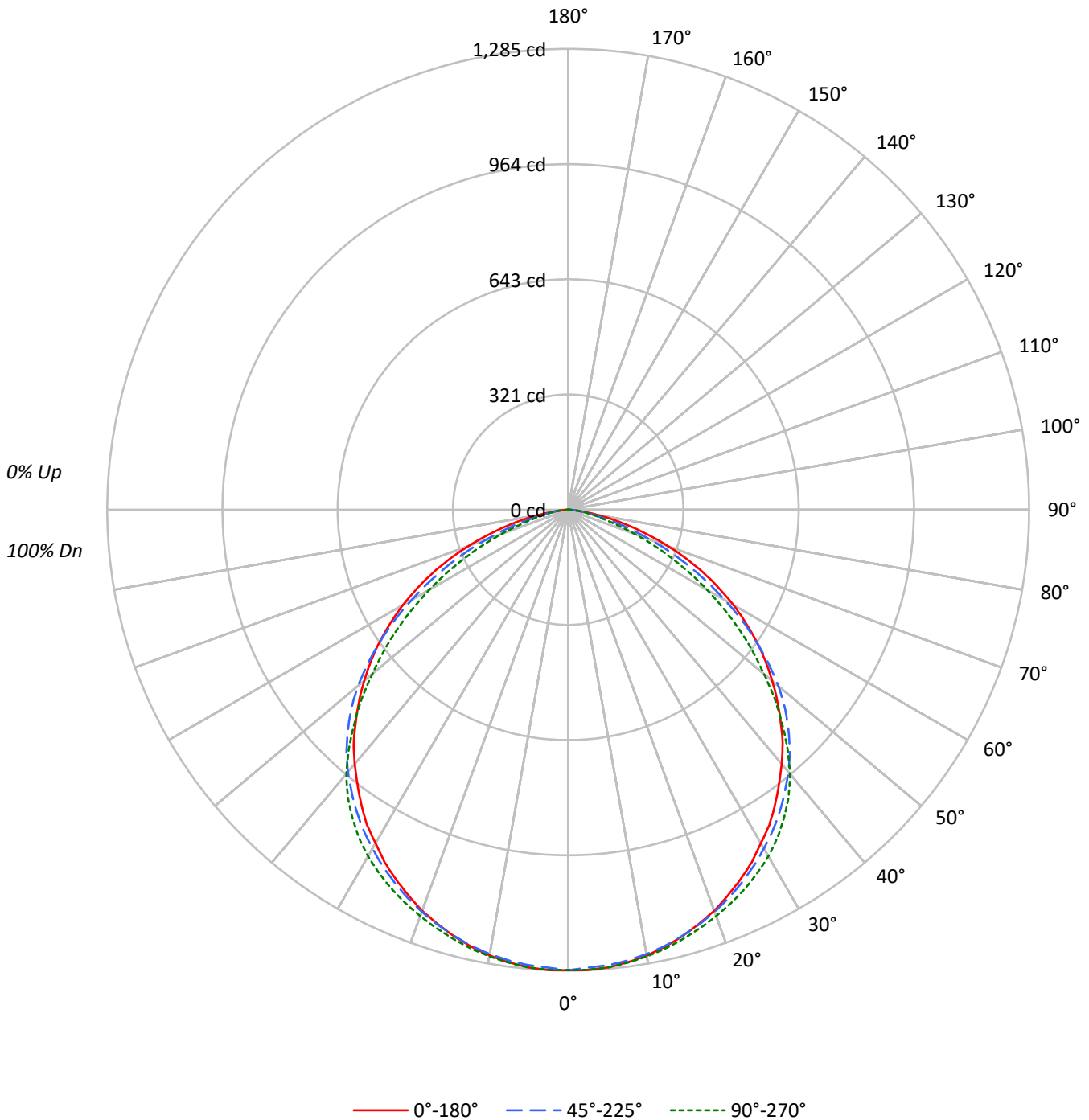
Input Watts (W): 45.1
Input Voltage (V): 120.0
Input Current (Ain): 0.377
Voltage Rise (V): NR
Power Factor: 0.9994
Total Harmonic Distortion (THDi): 7.75%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 5 HR
Ambient Temperature (°C): 25.0
Test Distance: 25 FT



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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°	4807	4807	4807
5°	4814	4792	4814
10°	4798	4783	4809
15°	4771	4768	4802
20°	4741	4753	4805
25°	4697	4734	4817
30°	4643	4717	4825
35°	4593	4699	4795
40°	4526	4667	4702
45°	4437	4596	4463
50°	4322	4456	4147
55°	4184	4171	3799
60°	3984	3774	3355
65°	3685	3287	2799
70°	3229	2660	2146
75°	2604	1895	1490
80°	1746	1186	1164
85°	816	773	730



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.5	3.6
10°-20°	348.4	10.2
20°-30°	530.1	15.6
30°-40°	642.8	18.9
40°-50°	657.5	19.3
50°-60°	558.6	16.4
60°-70°	369.2	10.8
70°-80°	152.0	4.5
80°-90°	25.0	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°	1000.0	29.4
0°-40°	1642.8	48.2
0°-60°	2858.8	84.0
0°-90°	3405.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3405.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1284	1284	1284	1284	1284	
5°	1281	1280	1275	1281	1281	122
15°	1231	1232	1230	1239	1239	347
25°	1137	1139	1146	1162	1166	524
35°	1005	1010	1028	1048	1049	628
45°	838	850	868	857	843	646
55°	641	654	639	598	582	572
65°	416	424	371	332	316	410
75°	180	169	131	107	103	193
85°	19	17	18	17	17	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1284	1284	1284	1284	1284
2.5°	1285	1284	1278	1284	1284
5°	1281	1280	1275	1281	1281
7.5°	1273	1272	1268	1274	1274
10°	1262	1262	1258	1265	1265
12.5°	1248	1248	1246	1253	1253
15°	1231	1232	1230	1239	1239
17.5°	1211	1212	1213	1223	1223
20°	1190	1191	1193	1205	1206
22.5°	1164	1166	1171	1186	1187
25°	1137	1139	1146	1162	1166
27.5°	1108	1111	1120	1138	1142
30°	1074	1079	1091	1111	1116
32.5°	1043	1047	1061	1083	1085
35°	1005	1010	1028	1048	1049
37.5°	965	973	992	1009	1009
40°	926	933	955	966	962
42.5°	885	892	915	918	905
45°	838	850	868	857	843
47.5°	791	802	820	796	781
50°	742	756	765	731	712
52.5°	693	707	703	666	648
55°	641	654	639	598	582
57.5°	587	601	575	532	514
60°	532	544	504	465	448
62.5°	474	486	438	397	381
65°	416	424	371	332	316
67.5°	355	359	306	269	255
70°	295	294	243	209	196
72.5°	236	229	184	154	145
75°	180	169	131	107	103
77.5°	128	116	86	79	79
80°	81	71	55	55	54
82.5°	44	37	34	34	34
85°	19	17	18	17	17
87.5°	5	6	8	8	9
90°	0	0	0	0	0

(END OF REPORT)