

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: P34501

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

Test Date: 10/01/15

Test Information

Test Method: LM-79-08
Report Number: P34501
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-STD-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: 2794.3 lumens
Efficiency: N/A
Efficacy: 81.9 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

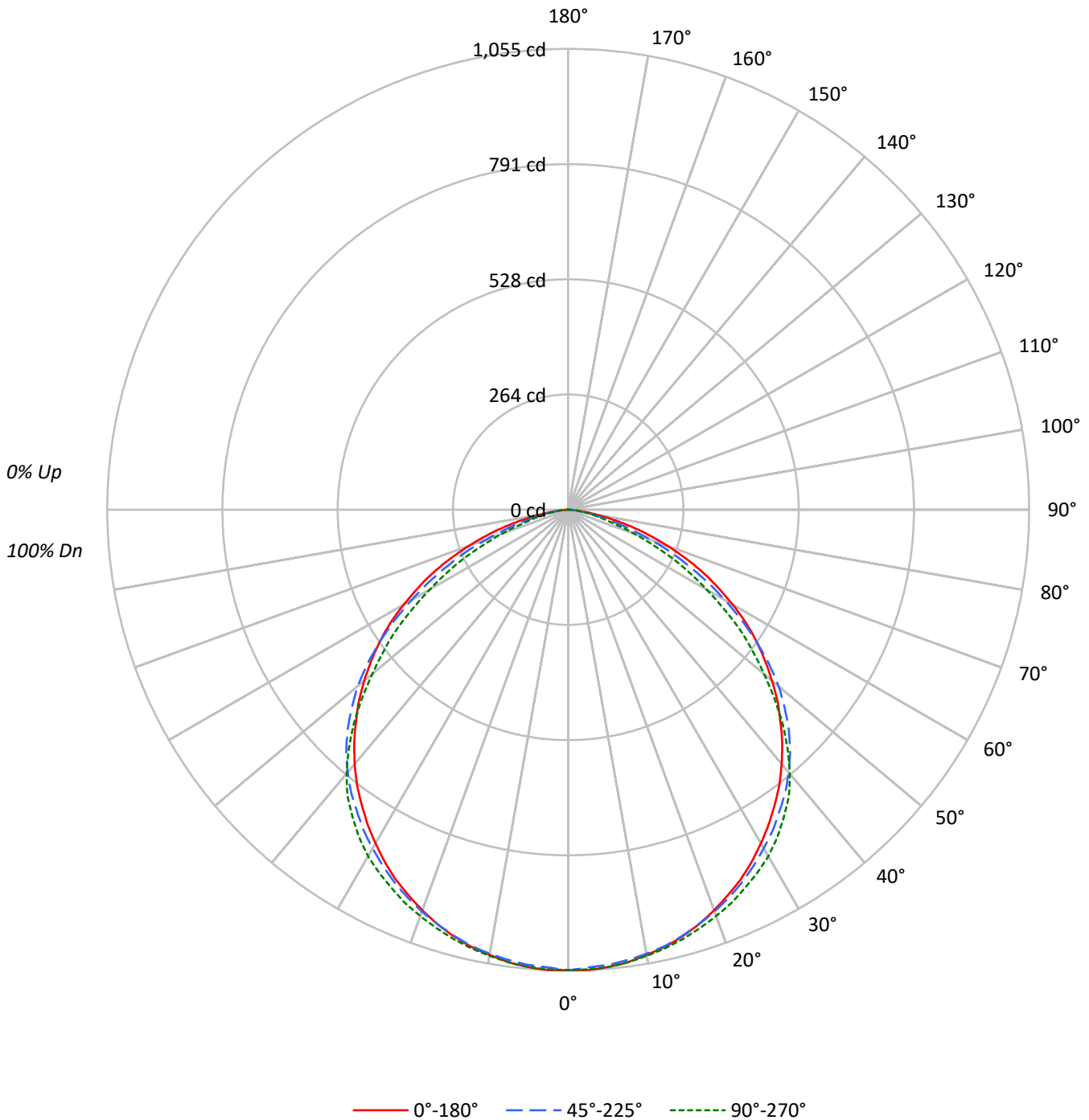
Input Watts (W): 34.1
Input Voltage (V): 120.0
Input Current (Ain): 0.286
Voltage Rise (V): NR
Power Factor: 0.9986
Total Harmonic Distortion (THDi): 7.48%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 5 HR
Ambient Temperature (°C): 25.0
Test Distance: 25 FT



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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°	3946	3946	3946
5°	3950	3931	3950
10°	3935	3923	3942
15°	3919	3915	3942
20°	3889	3901	3944
25°	3858	3887	3949
30°	3813	3869	3960
35°	3766	3853	3931
40°	3714	3837	3856
45°	3638	3780	3675
50°	3547	3664	3407
55°	3433	3427	3140
60°	3250	3100	2741
65°	3021	2693	2321
70°	2638	2178	1762
75°	2155	1562	1230
80°	1445	970	970
85°	687	601	601



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.7	3.6
10°-20°	285.9	10.2
20°-30°	435.1	15.6
30°-40°	527.5	18.9
40°-50°	539.5	19.3
50°-60°	458.7	16.4
60°-70°	303.1	10.8
70°-80°	124.4	4.5
80°-90°	20.4	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°	820.7	29.4
0°-40°	1348.1	48.2
0°-60°	2346.3	84.0
0°-90°	2794.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2794.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1054	1054	1054	1054	1054	
5°	1051	1050	1046	1051	1051	100
15°	1011	1011	1010	1017	1017	285
25°	934	935	941	955	956	430
35°	824	829	843	860	860	516
45°	687	696	714	705	694	530
55°	526	537	525	490	481	469
65°	341	347	304	273	262	335
75°	149	138	108	86	85	159
85°	16	13	14	14	14	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1054	1054	1054	1054	1054
2.5°	1055	1054	1049	1053	1053
5°	1051	1050	1046	1051	1051
7.5°	1045	1044	1040	1046	1045
10°	1035	1035	1032	1037	1037
12.5°	1025	1024	1023	1028	1028
15°	1011	1011	1010	1017	1017
17.5°	995	995	995	1003	1004
20°	976	977	979	989	990
22.5°	955	957	961	972	975
25°	934	935	941	955	956
27.5°	909	911	919	934	937
30°	882	886	895	912	916
32.5°	854	859	871	888	890
35°	824	829	843	860	860
37.5°	794	797	816	828	829
40°	760	765	785	794	789
42.5°	725	731	752	751	743
45°	687	696	714	705	694
47.5°	650	657	672	653	640
50°	609	620	629	600	585
52.5°	568	581	579	547	533
55°	526	537	525	490	481
57.5°	483	494	471	436	422
60°	434	448	414	381	366
62.5°	387	398	360	327	314
65°	341	347	304	273	262
67.5°	291	294	254	221	208
70°	241	241	199	171	161
72.5°	195	187	152	126	117
75°	149	138	108	86	85
77.5°	105	95	69	64	64
80°	67	59	45	45	45
82.5°	37	30	28	28	27
85°	16	13	14	14	14
87.5°	4	5	6	7	7
90°	0	0	0	0	0

(END OF REPORT)