

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: P34507

Luminaire Tested: **SGI-G-24-4-LD4-3-HI-CA125-FA**

Test Date: 10/05/15

Test Information

Test Method: LM-79-08
Report Number: P34507
Test Lab: INNOVATION CENTER-P3
Test Date: 10/05/15
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: SGI-G-24-4-LD4-3-HI-CA125-FA
Description: FAILSAFE SGI LED 2X4 FIXTURE.
Light Source: (252) NICHIA ELM 3500K LED
2UT217042A8404A
Ballast/Driver: (3) OSRAM ELECTRONIC DRIVER
OT50W/PRG1400C/UNV/DIM/L

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11521.3 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.34
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

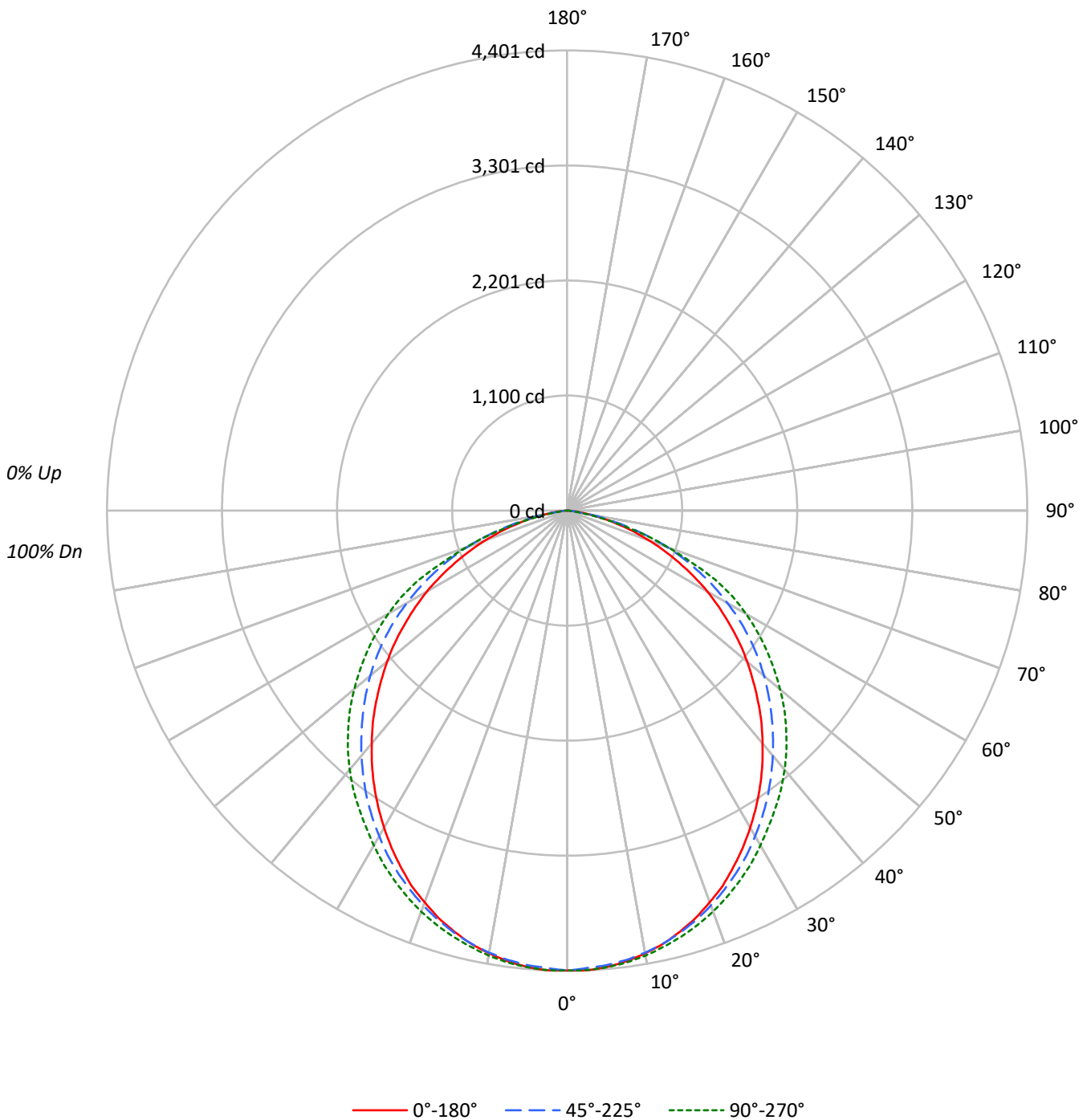
Input Watts (W): 135.1
Input Voltage (V): 120.0
Input Current (Ain): 1.13
Voltage Rise (V): NR
Power Factor: 0.9993
Total Harmonic Distortion (THDi): 7.77%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 5 HR
Ambient Temperature (°C): 25.0
Test Distance: 25 FT



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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	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			
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87					85				
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74					72				
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63					61				
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54					52				
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47					45				
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42					40				
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37					35				
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33					31				
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30					28				
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27					26				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6738	6738	6738
5°	6737	6710	6740
10°	6688	6677	6722
15°	6611	6626	6687
20°	6497	6552	6652
25°	6358	6466	6601
30°	6194	6360	6538
35°	6015	6249	6494
40°	5812	6118	6468
45°	5593	5987	6414
50°	5352	5857	6336
55°	5063	5685	6222
60°	4751	5431	6056
65°	4287	5067	5657
70°	3735	4554	4621
75°	2953	3527	3207
80°	1985	2064	1482
85°	931	668	597



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.5	3.6
10°-20°	1181.0	10.3
20°-30°	1765.1	15.3
30°-40°	2092.1	18.2
40°-50°	2137.2	18.5
50°-60°	1892.1	16.4
60°-70°	1362.0	11.8
70°-80°	602.2	5.2
80°-90°	74.3	0.6
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°	3361.6	29.2
0°-40°	5453.6	47.3
0°-60°	9482.9	82.3
0°-90°	11521.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11521.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4399	4399	4399	4399	4399	
5°	4382	4376	4364	4382	4384	416
15°	4169	4169	4179	4212	4217	1175
25°	3762	3782	3826	3891	3906	1732
35°	3217	3253	3342	3441	3473	2011
45°	2582	2633	2764	2912	2961	1992
55°	1896	1959	2129	2277	2330	1697
65°	1183	1255	1398	1524	1561	1173
75°	499	547	596	564	542	540
85°	53	57	38	35	34	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4399	4399	4399	4399	4399
2.5°	4401	4395	4379	4396	4399
5°	4382	4376	4364	4382	4384
7.5°	4348	4344	4335	4356	4359
10°	4300	4297	4293	4318	4322
12.5°	4244	4238	4242	4270	4272
15°	4169	4169	4179	4212	4217
17.5°	4086	4089	4104	4144	4154
20°	3986	3994	4020	4068	4081
22.5°	3886	3889	3925	3984	3998
25°	3762	3782	3826	3891	3906
27.5°	3637	3658	3717	3787	3808
30°	3502	3528	3596	3676	3697
32.5°	3362	3395	3472	3555	3585
35°	3217	3253	3342	3441	3473
37.5°	3067	3104	3202	3319	3361
40°	2907	2947	3060	3191	3235
42.5°	2752	2793	2913	3058	3105
45°	2582	2633	2764	2912	2961
47.5°	2413	2478	2613	2763	2819
50°	2246	2299	2458	2610	2659
52.5°	2078	2127	2297	2448	2495
55°	1896	1959	2129	2277	2330
57.5°	1722	1778	1955	2100	2155
60°	1551	1605	1773	1920	1977
62.5°	1364	1430	1589	1726	1787
65°	1183	1255	1398	1524	1561
67.5°	1007	1070	1209	1281	1274
70°	834	893	1017	1027	1032
72.5°	665	715	803	807	790
75°	499	547	596	564	542
77.5°	356	395	406	351	338
80°	225	259	234	186	168
82.5°	126	136	108	75	63
85°	53	57	38	35	34
87.5°	17	17	18	17	16
90°	0	0	0	0	0

(END OF REPORT)