

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: P202457

Luminaire Tested: **GRW-12-4-LD4-43-35-A12125**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P202457  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: GRW-12-4-LD4-43-35-A12125  
Description: FAILSAFE GRW 1X4 LED TROFFER WITH A12 LENS  
Light Source: (2) COOPER LIGHTING 3500K BOARDS  
2UT217042T8352A  
Ballast/Driver: (1) OSRAM SYLVANIA ELECTRONIC DRIVER  
OT50W/PRG1400C/UNV/DIM/L

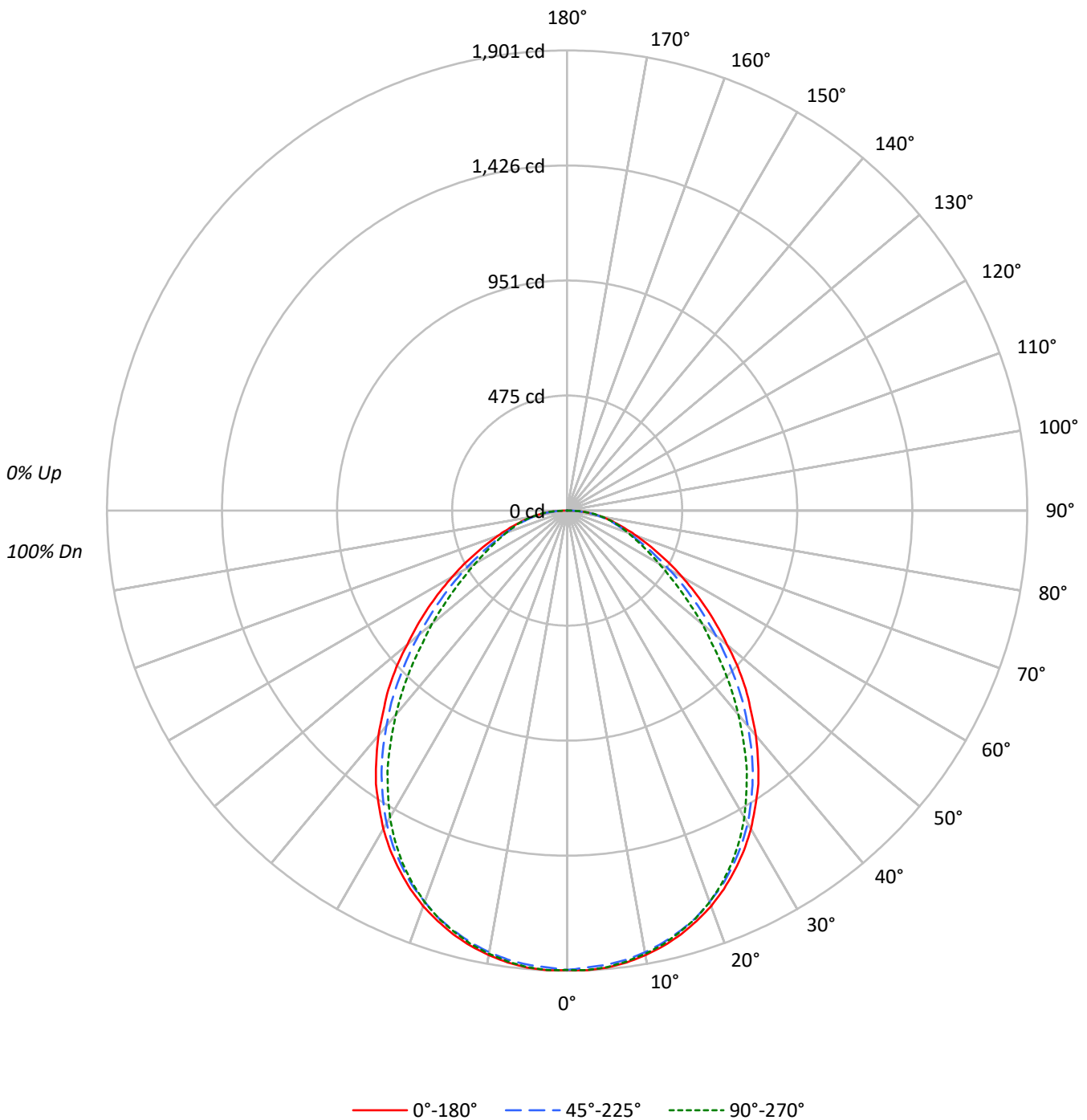
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4260.4 lumens  
Efficiency: N/A  
Efficacy: 84.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 50.3  
Input Voltage (V): NR  
Input Current (Ain): 0.4204  
Voltage Rise (V): NR  
Power Factor: 0.9995  
Total Harmonic Distortion (THDi): 8.07%  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: 4 HR  
Ambient Temperature (°C): NR  
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	99	96	99	96	93	95	92	90	91	89	88	85
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	58	66	61	57	55
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48
6	73	60	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43
7	68	55	47	41	66	54	47	41	53	46	41	51	45	40	50	44	40	38
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28

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

	0°	45°	90°
0°	6395	6395	6395
5°	6410	6369	6403
10°	6381	6340	6361
15°	6325	6276	6286
20°	6236	6168	6171
25°	6094	6019	5978
30°	5906	5805	5696
35°	5664	5500	5319
40°	5336	5107	4839
45°	4975	4675	4327
50°	4524	4194	3822
55°	4118	3719	3331
60°	3693	3275	2958
65°	3293	2918	2719
70°	2995	2660	2630
75°	2799	2591	2721
80°	2814	2678	2833
85°	2938	2745	3132



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.5	4.2
10°-20°	508.8	11.9
20°-30°	746.0	17.5
30°-40°	832.6	19.5
40°-50°	753.8	17.7
50°-60°	569.2	13.4
60°-70°	372.1	8.7
70°-80°	218.5	5.1
80°-90°	80.0	1.9
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°	1434.2	33.7
0°-40°	2266.9	53.2
0°-60°	3589.8	84.3
0°-90°	4260.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4260.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1898	1898	1898	1898	1898	
5°	1895	1891	1883	1894	1893	180
15°	1813	1810	1799	1809	1802	511
25°	1639	1633	1619	1616	1608	754
35°	1377	1365	1337	1307	1293	858
45°	1044	1028	981	928	908	802
55°	701	685	633	583	567	627
65°	413	400	366	345	341	414
75°	215	209	199	203	209	231
85°	76	73	71	80	81	81
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1898	1898	1898	1898	1898
2.5°	1901	1898	1889	1901	1900
5°	1895	1891	1883	1894	1893
7.5°	1883	1879	1871	1881	1879
10°	1865	1861	1853	1864	1859
12.5°	1842	1838	1829	1839	1835
15°	1813	1810	1799	1809	1802
17.5°	1778	1773	1765	1771	1766
20°	1739	1733	1720	1726	1721
22.5°	1692	1684	1675	1675	1668
25°	1639	1633	1619	1616	1608
27.5°	1582	1577	1559	1554	1540
30°	1518	1511	1492	1476	1464
32.5°	1447	1442	1416	1395	1378
35°	1377	1365	1337	1307	1293
37.5°	1295	1286	1251	1214	1195
40°	1213	1202	1161	1120	1100
42.5°	1124	1114	1075	1026	1005
45°	1044	1028	981	928	908
47.5°	956	939	889	833	810
50°	863	852	800	746	729
52.5°	780	763	714	661	643
55°	701	685	633	583	567
57.5°	622	604	559	514	498
60°	548	530	486	449	439
62.5°	481	461	422	393	386
65°	413	400	366	345	341
67.5°	356	340	313	303	301
70°	304	293	270	267	267
72.5°	257	248	231	233	236
75°	215	209	199	203	209
77.5°	179	173	167	173	177
80°	145	139	138	143	146
82.5°	109	104	105	113	116
85°	76	73	71	80	81
87.5°	39	37	36	43	41
90°	0	0	0	0	0

(END OF REPORT)