

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: P202461

Luminaire Tested: **GRW-24-4-LD4-72-35-A12125**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P202461  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: GRW-24-4-LD4-72-35-A12125  
Description: FAILSAFE GRW 2X4 LED TROFFER WITH F1 LENS  
Light Source: (6) COOPER LIGHTING 3500K BOARDS  
2UT217042T8352A  
Ballast/Driver: (1) PHILIPS ADVANCE ELECTRONIC DRIVER  
XI075C200V054XPT1

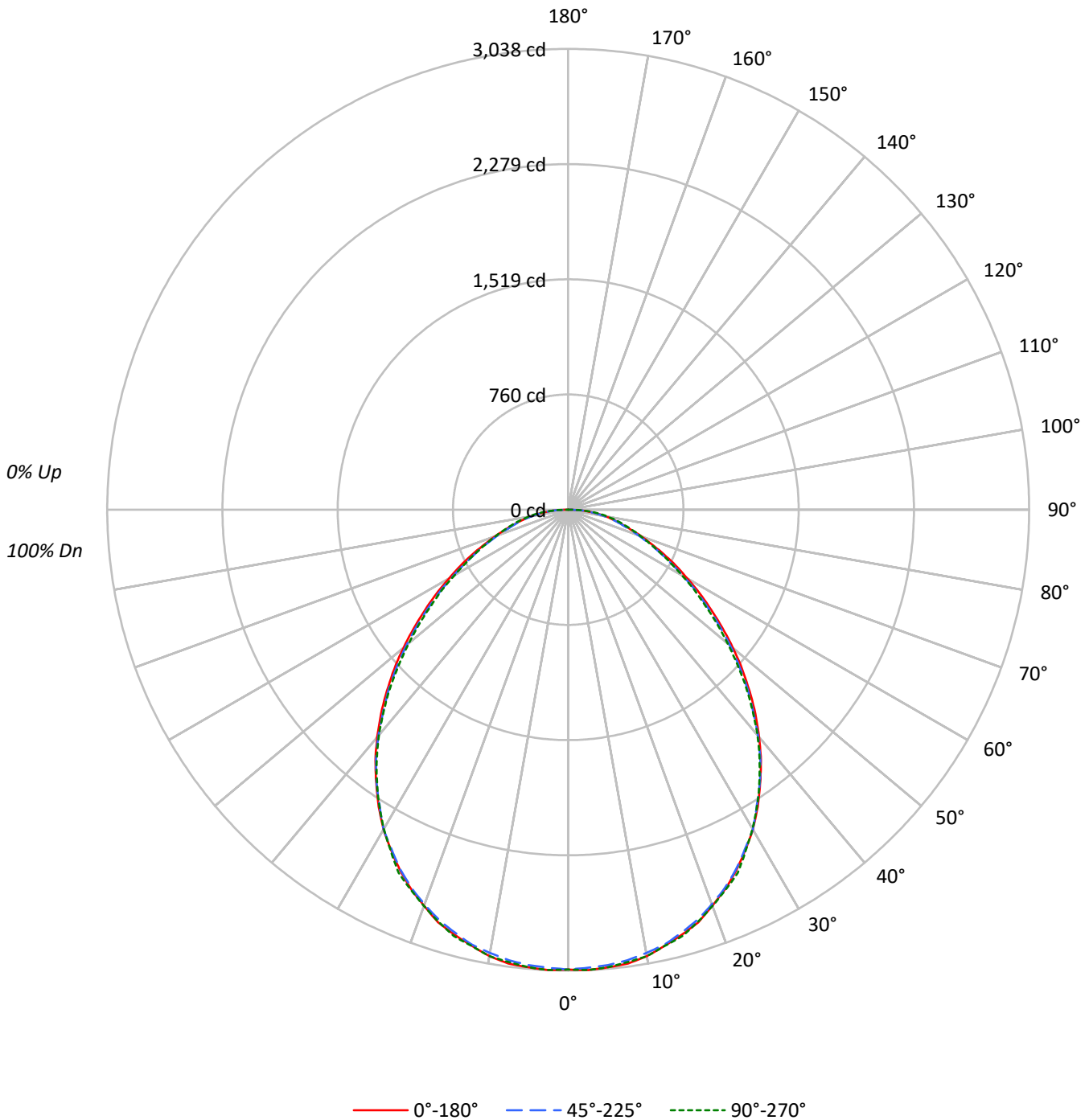
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7173.9 lumens  
Efficiency: N/A  
Efficacy: 112.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27  
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 63.7  
Input Voltage (V): NR  
Input Current (Ain): 0.5334  
Voltage Rise (V): NR  
Power Factor: 0.9994  
Total Harmonic Distortion (THDi): 10.4%  
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	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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	58	82	72	64	58	69	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	54	50	59	53	49	47					47			
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	43	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33					33			
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30					30			
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29	27					27			

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

	0°	45°	90°
0°	4642	4642	4642
5°	4655	4632	4654
10°	4647	4614	4647
15°	4597	4576	4614
20°	4528	4512	4531
25°	4431	4423	4467
30°	4305	4303	4296
35°	4125	4115	4108
40°	3915	3891	3881
45°	3658	3617	3593
50°	3376	3314	3269
55°	3071	2999	2943
60°	2775	2686	2650
65°	2519	2410	2417
70°	2288	2185	2270
75°	2160	2101	2249
80°	2187	2126	2337
85°	2232	2232	2548



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	286.7	4.0
10°-20°	815.1	11.4
20°-30°	1204.8	16.8
30°-40°	1372.8	19.1
40°-50°	1286.5	17.9
50°-60°	1008.1	14.1
60°-70°	670.4	9.3
70°-80°	387.8	5.4
80°-90°	141.6	2.0
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°	2306.7	32.2
0°-40°	3679.5	51.3
0°-60°	5974.1	83.3
0°-90°	7173.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7173.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3031	3031	3031	3031	3031	
5°	3028	3015	3013	3018	3027	288
15°	2899	2883	2886	2891	2910	818
25°	2622	2615	2617	2619	2643	1206
35°	2206	2203	2201	2193	2197	1378
45°	1689	1679	1670	1654	1659	1303
55°	1150	1136	1123	1107	1102	1032
65°	695	679	665	659	667	692
75°	365	356	355	370	380	390
85°	127	122	127	145	145	138
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3031	3031	3031	3031	3031
2.5°	3038	3024	3022	3028	3037
5°	3028	3015	3013	3018	3027
7.5°	3018	2995	2995	3000	3008
10°	2988	2967	2967	2973	2988
12.5°	2944	2932	2936	2940	2945
15°	2899	2883	2886	2891	2910
17.5°	2852	2837	2834	2837	2847
20°	2778	2775	2768	2775	2780
22.5°	2707	2697	2699	2703	2712
25°	2622	2615	2617	2619	2643
27.5°	2529	2527	2522	2531	2534
30°	2434	2425	2433	2426	2429
32.5°	2324	2318	2313	2316	2317
35°	2206	2203	2201	2193	2197
37.5°	2087	2080	2081	2065	2072
40°	1958	1948	1946	1930	1941
42.5°	1826	1820	1804	1793	1798
45°	1689	1679	1670	1654	1659
47.5°	1555	1542	1530	1517	1512
50°	1417	1410	1391	1374	1372
52.5°	1281	1271	1254	1236	1236
55°	1150	1136	1123	1107	1102
57.5°	1029	1013	999	983	986
60°	906	891	877	861	865
62.5°	800	785	762	759	760
65°	695	679	665	659	667
67.5°	597	584	574	572	580
70°	511	501	488	501	507
72.5°	432	426	416	432	441
75°	365	356	355	370	380
77.5°	303	297	297	312	326
80°	248	236	241	259	265
82.5°	187	179	182	203	210
85°	127	122	127	145	145
87.5°	69	66	70	81	81
90°	0	0	0	0	0

(END OF REPORT)