

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: P202458

Luminaire Tested: **GRW-24-2-LD4-32-35-A12125**

Test Date: 08/29/14



**Test Information**

Test Method: LM-79-08  
Report Number: P202458  
Test Lab: INNOVATION CENTER-P3  
Test Date: 08/29/14  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: GRW-24-2-LD4-32-35-A12125  
Description: FAILSAFE GRW 2X2 LED TROFFER WITH A12 LENS  
Light Source: (2) COOPER LIGHTING 3500K BOARDS  
2UT217042T8352A  
Ballast/Driver: (1) LG ELECTRONIC DRIVER  
CLUNVCC200024VD010

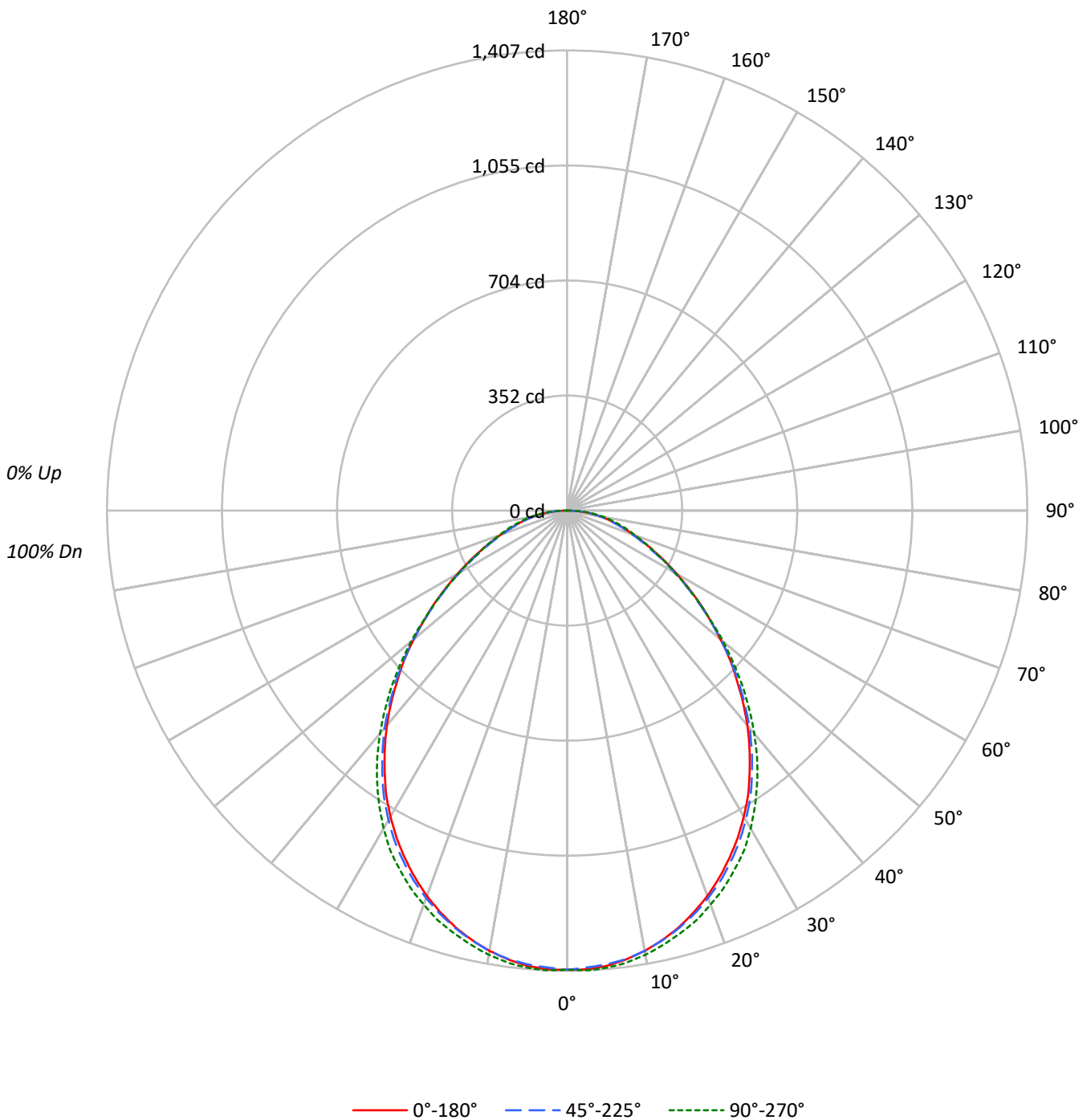
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3199.8 lumens  
Efficiency: N/A  
Efficacy: 97.3 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.25  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 32.9  
Input Voltage (V): NR  
Input Current (Ain): 0.3007  
Voltage Rise (V): NR  
Power Factor: 0.9971  
Total Harmonic Distortion (THDi): 6.26%  
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	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	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85				85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73				73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62				62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54				54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	48				48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	42				42
7	68	55	46	41	66	54	46	40	52	45	40	51	45	40	50	44	40	38				38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34				34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	32	31				31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28				28

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

	0°	45°	90°
0°	4496	4496	4496
5°	4491	4478	4510
10°	4445	4445	4484
15°	4373	4383	4436
20°	4274	4298	4369
25°	4145	4184	4279
30°	3994	4038	4149
35°	3804	3851	3960
40°	3583	3629	3721
45°	3324	3356	3433
50°	3049	3054	3104
55°	2764	2736	2758
60°	2479	2434	2440
65°	2220	2167	2205
70°	2023	1966	2060
75°	1906	1868	2042
80°	1881	1900	2121
85°	1984	2021	2241



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.4	4.1
10°-20°	373.3	11.7
20°-30°	546.5	17.1
30°-40°	617.4	19.3
40°-50°	572.6	17.9
50°-60°	441.5	13.8
60°-70°	289.4	9.0
70°-80°	166.5	5.2
80°-90°	60.2	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°	1052.3	32.9
0°-40°	1669.7	52.2
0°-60°	2683.8	83.9
0°-90°	3199.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3199.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1404	1404	1404	1404	1404	
5°	1397	1394	1393	1398	1403	132
15°	1319	1319	1322	1333	1338	371
25°	1173	1175	1184	1201	1211	540
35°	973	978	985	1002	1013	608
45°	734	736	741	749	758	567
55°	495	492	490	491	494	443
65°	293	290	286	289	291	293
75°	154	153	151	160	165	165
85°	54	53	55	61	61	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1404	1404	1404	1404	1404
2.5°	1404	1400	1398	1404	1407
5°	1397	1394	1393	1398	1403
7.5°	1384	1382	1383	1389	1394
10°	1367	1365	1367	1374	1379
12.5°	1345	1344	1346	1356	1360
15°	1319	1319	1322	1333	1338
17.5°	1288	1288	1293	1306	1314
20°	1254	1255	1261	1275	1282
22.5°	1215	1217	1225	1240	1250
25°	1173	1175	1184	1201	1211
27.5°	1129	1132	1141	1158	1172
30°	1080	1083	1092	1110	1122
32.5°	1030	1031	1042	1058	1069
35°	973	978	985	1002	1013
37.5°	916	919	927	943	954
40°	857	860	868	879	890
42.5°	796	799	804	814	824
45°	734	736	741	749	758
47.5°	675	674	677	683	689
50°	612	613	613	617	623
52.5°	552	551	550	552	555
55°	495	492	490	491	494
57.5°	439	436	434	433	436
60°	387	383	380	381	381
62.5°	339	334	331	331	334
65°	293	290	286	289	291
67.5°	253	249	246	251	255
70°	216	213	210	217	220
72.5°	183	182	179	188	192
75°	154	153	151	160	165
77.5°	128	127	127	135	140
80°	102	102	103	110	115
82.5°	78	78	80	86	89
85°	54	53	55	61	61
87.5°	27	29	29	32	30
90°	0	0	0	0	0

(END OF REPORT)