

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: P202459

Luminaire Tested: **GRW-24-2-LD4-43-35-A12125**

Test Date: 09/11/14



Test Information

Test Method: LM-79-08
Report Number: P202459
Test Lab: INNOVATION CENTER-P3
Test Date: 09/11/14
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: GRW-24-2-LD4-43-35-A12125
Description: FAILSAFE GRW 2X2 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

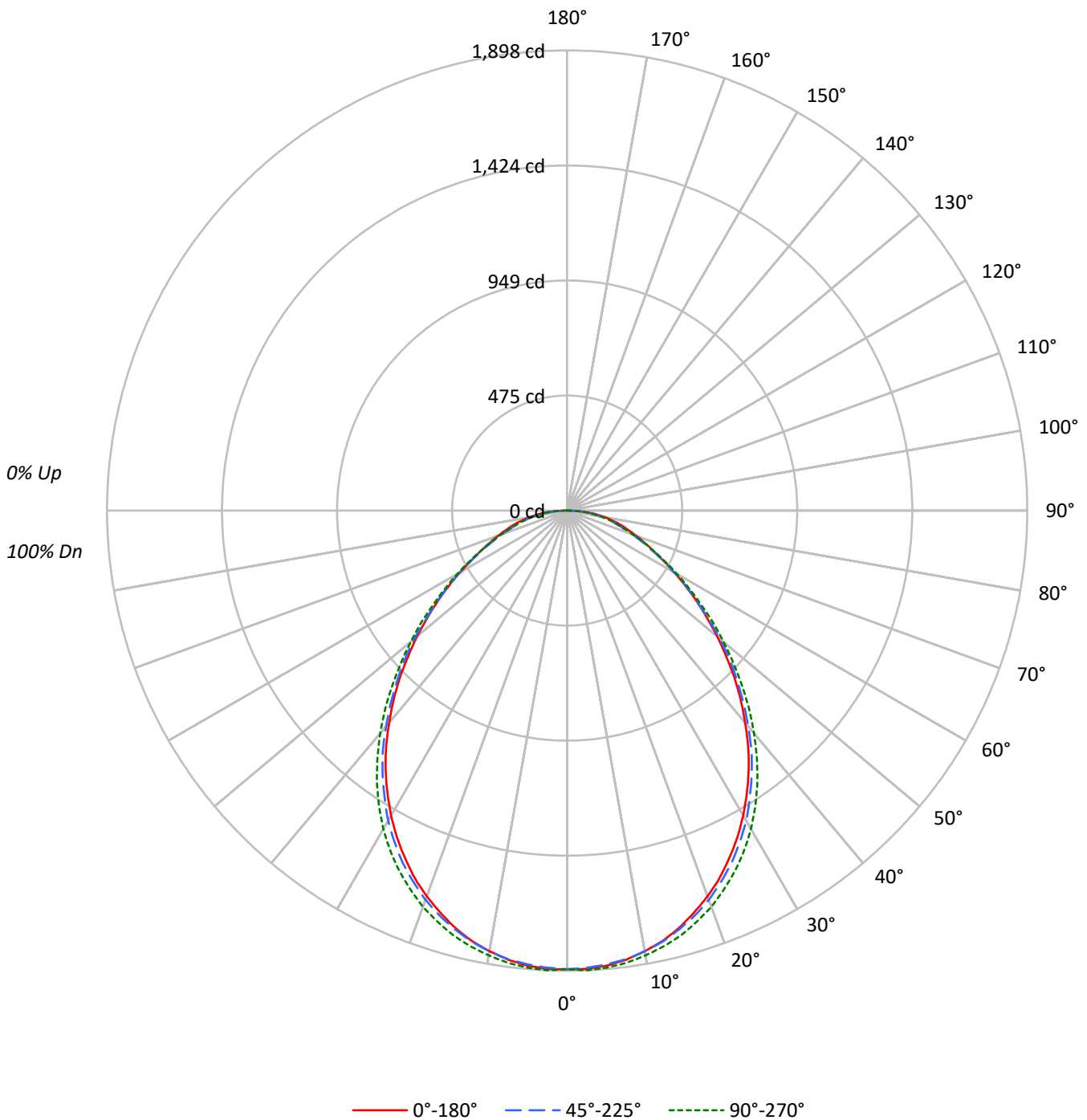
Lumens per Lamp: N/A
Luminaire Lumens: 4309.8 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 50.5
Input Voltage (V): NR
Input Current (Ain): 0.4129
Voltage Rise (V): NR
Power Factor: 0.9995
Total Harmonic Distortion (THDi): 7.85%
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	97	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67		75	70	66		73	68	65	62
4	85	74	65	59	83	72	65	59	70	63	58		68	62	57		65	60	56	54
5	78	66	58	52	76	65	57	51	63	56	51		61	55	50		59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45		56	49	45		54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40		51	45	40		50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36		47	41	36		46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33		44	37	33		43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30		40	34	30		40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6059	6059	6059
5°	6057	6040	6082
10°	6000	6003	6058
15°	5908	5928	6014
20°	5770	5821	5927
25°	5590	5668	5791
30°	5369	5462	5606
35°	5106	5188	5348
40°	4774	4854	5012
45°	4420	4488	4620
50°	4026	4090	4195
55°	3635	3646	3752
60°	3260	3273	3350
65°	2970	2910	2978
70°	2828	2669	2715
75°	2846	2574	2586
80°	2951	2600	2582
85°	3234	2756	2609



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.7	4.1
10°-20°	504.9	11.7
20°-30°	739.1	17.1
30°-40°	830.9	19.3
40°-50°	766.3	17.8
50°-60°	590.6	13.7
60°-70°	389.7	9.0
70°-80°	226.8	5.3
80°-90°	82.6	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°	1422.7	33.0
0°-40°	2253.7	52.3
0°-60°	3610.6	83.8
0°-90°	4309.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4309.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1892	1892	1892	1892	1892	
5°	1884	1880	1879	1888	1892	179
15°	1782	1782	1788	1804	1814	501
25°	1582	1590	1604	1626	1639	728
35°	1306	1312	1327	1354	1368	814
45°	976	977	991	1011	1020	752
55°	651	650	653	664	672	584
65°	392	390	384	387	393	393
75°	230	220	208	204	209	242
85°	88	87	75	69	71	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1892	1892	1892	1892	1892
2.5°	1892	1888	1887	1894	1898
5°	1884	1880	1879	1888	1892
7.5°	1868	1865	1866	1876	1881
10°	1845	1844	1846	1857	1863
12.5°	1818	1817	1821	1833	1841
15°	1782	1782	1788	1804	1814
17.5°	1739	1742	1751	1767	1778
20°	1693	1696	1708	1726	1739
22.5°	1642	1646	1658	1680	1691
25°	1582	1590	1604	1626	1639
27.5°	1520	1529	1542	1569	1581
30°	1452	1458	1477	1502	1516
32.5°	1380	1386	1402	1432	1444
35°	1306	1312	1327	1354	1368
37.5°	1226	1231	1249	1270	1285
40°	1142	1149	1161	1186	1199
42.5°	1060	1063	1076	1101	1111
45°	976	977	991	1011	1020
47.5°	889	891	908	920	929
50°	808	809	821	832	842
52.5°	727	727	733	745	758
55°	651	650	653	664	672
57.5°	579	578	582	589	595
60°	509	507	511	515	523
62.5°	447	449	444	450	456
65°	392	390	384	387	393
67.5°	345	342	332	334	341
70°	302	296	285	285	290
72.5°	263	257	243	244	246
75°	230	220	208	204	209
77.5°	194	186	175	172	174
80°	160	154	141	137	140
82.5°	127	122	107	104	105
85°	88	87	75	69	71
87.5°	47	48	39	35	37
90°	0	0	0	0	0

(END OF REPORT)