

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: P202460

Luminaire Tested: **GRW-24-4-LD4-48-35-A12125**

Test Date: 09/09/14



Test Information

Test Method: LM-79-08
Report Number: P202460
Test Lab: INNOVATION CENTER-P3
Test Date: 09/09/14
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: GRW-24-4-LD4-48-35-A12125
Description: FAILSAFE GRW 2X4 LED TROFFER WITH A12 LENS
Light Source: (4) COOPER LIGHTING 3500K BOARDS
2UT217042T8352A
Ballast/Driver: (1) OSRAM SYLVANIA ELECTRONIC DRIVER
OT50W/PRG1400C/UNV/DIM/L

Summary

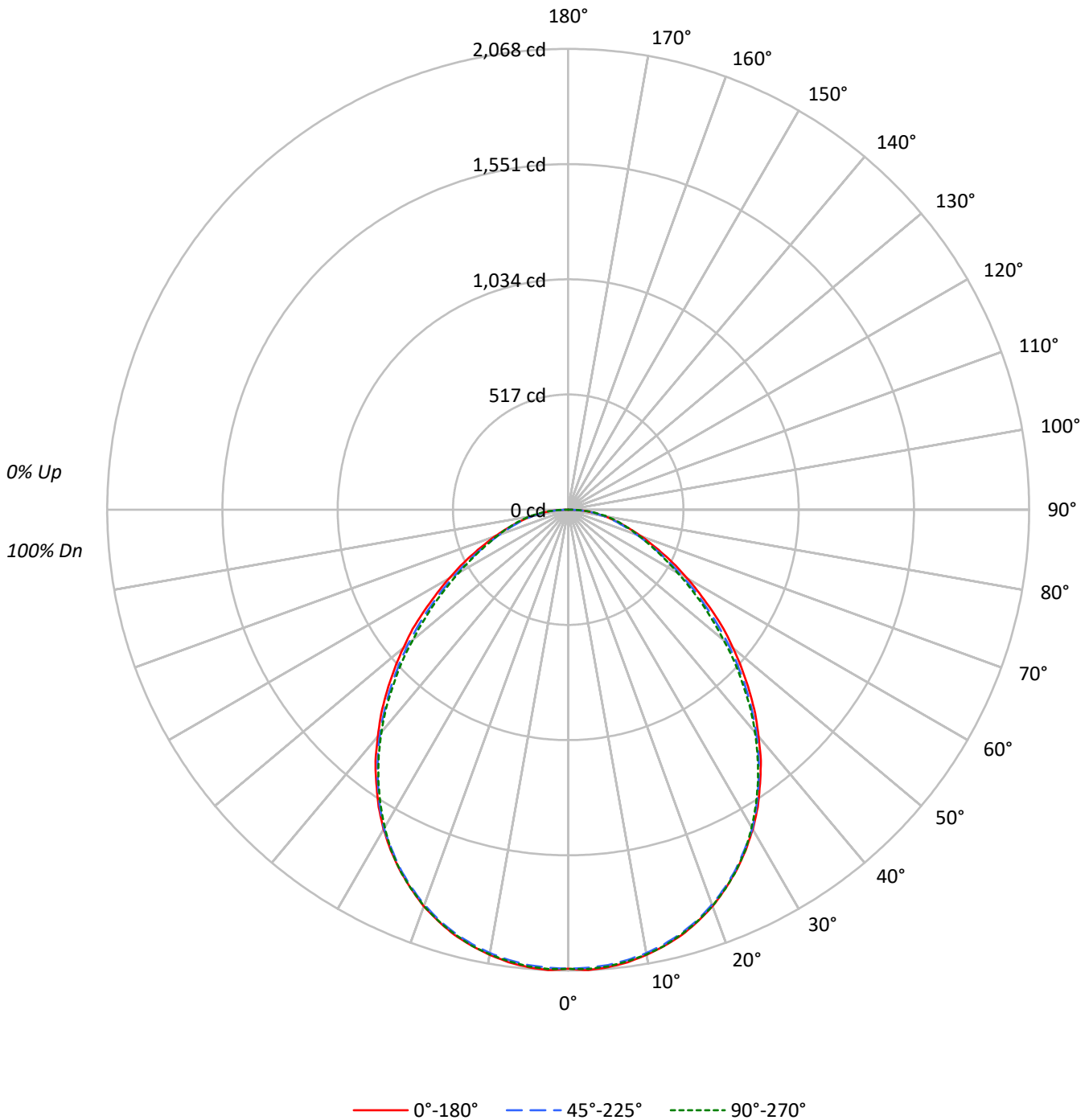
Lumens per Lamp: N/A
Luminaire Lumens: 4840.7 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 43.7
Input Voltage (V): NR
Input Current (Ain): 0.3653
Voltage Rise (V): NR
Power Factor: 0.9982
Total Harmonic Distortion (THDi): 8.42%
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	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	74	72					72			
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	73	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	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34					34			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	34	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3155	3155	3155
5°	3169	3153	3163
10°	3154	3142	3151
15°	3132	3119	3125
20°	3087	3074	3084
25°	3018	3008	3017
30°	2929	2922	2911
35°	2805	2784	2775
40°	2655	2625	2607
45°	2489	2437	2400
50°	2302	2228	2168
55°	2094	2003	1947
60°	1890	1792	1734
65°	1700	1605	1580
70°	1563	1464	1496
75°	1462	1397	1485
80°	1429	1411	1570
85°	1511	1459	1687



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.0	4.0
10°-20°	554.4	11.5
20°-30°	819.0	16.9
30°-40°	930.2	19.2
40°-50°	867.1	17.9
50°-60°	675.2	13.9
60°-70°	447.6	9.2
70°-80°	258.4	5.3
80°-90°	93.8	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°	1568.3	32.4
0°-40°	2498.5	51.6
0°-60°	4040.8	83.5
0°-90°	4840.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4840.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2060	2060	2060	2060	2060	
5°	2061	2053	2051	2049	2057	196
15°	1975	1967	1967	1963	1971	556
25°	1786	1783	1780	1777	1785	821
35°	1500	1499	1489	1482	1484	937
45°	1149	1137	1125	1109	1108	885
55°	784	769	750	731	729	704
65°	469	458	443	437	436	470
75°	247	240	236	246	251	263
85°	86	83	83	95	96	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2060	2060	2060	2060	2060
2.5°	2068	2060	2057	2056	2063
5°	2061	2053	2051	2049	2057
7.5°	2048	2041	2038	2037	2044
10°	2028	2022	2020	2018	2026
12.5°	2004	1997	1996	1993	2003
15°	1975	1967	1967	1963	1971
17.5°	1936	1930	1930	1928	1935
20°	1894	1886	1886	1884	1892
22.5°	1841	1838	1836	1836	1841
25°	1786	1783	1780	1777	1785
27.5°	1723	1722	1716	1712	1721
30°	1656	1650	1652	1643	1646
32.5°	1582	1577	1573	1567	1567
35°	1500	1499	1489	1482	1484
37.5°	1420	1413	1403	1394	1396
40°	1328	1325	1313	1301	1304
42.5°	1241	1232	1220	1207	1209
45°	1149	1137	1125	1109	1108
47.5°	1056	1043	1029	1010	1013
50°	966	952	935	915	910
52.5°	879	861	842	822	817
55°	784	769	750	731	729
57.5°	697	683	667	649	644
60°	617	603	585	572	566
62.5°	543	530	510	500	498
65°	469	458	443	437	436
67.5°	406	394	381	379	381
70°	349	336	327	330	334
72.5°	293	285	278	285	292
75°	247	240	236	246	251
77.5°	203	198	197	207	213
80°	162	159	160	170	178
82.5°	124	120	122	134	138
85°	86	83	83	95	96
87.5°	45	45	44	53	51
90°	0	0	0	0	0

(END OF REPORT)