

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: 108P129

Luminaire Tested: **2GCASF-SS-232A125**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 108P129
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GCASF-SS-232A125
Description: 2 X 4 Recessed Silver Steel Convertible Body
Troffer with a .125 pattern 12 acrylic lens.
Light Source: Two-F32T8/31K - 2900 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad-Utrad B232I120 Electronic

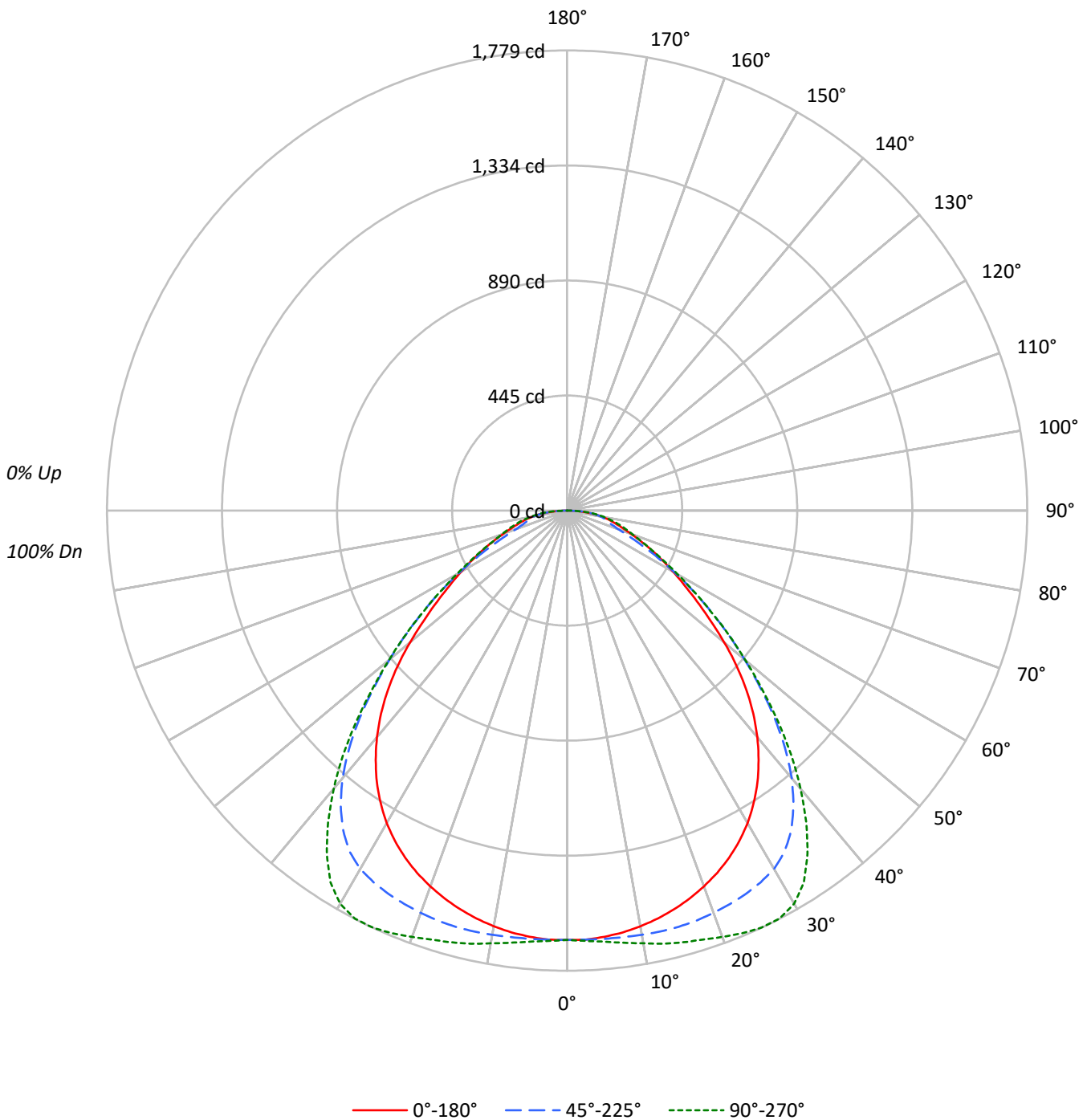
Summary

Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 4359.9 lumens
Efficiency: 75.2%
Efficacy: 72.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.46 / 1.4
Luminous Opening: Rectangular (W 1.69' x L: 3.7' x H: 0')
CIE Type: Direct

Input Watts (W): 60.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
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	89	89	89	89	87	87	87	87	84	84	84		80	80	80		77	77	77	75
1	82	79	76	74	80	78	75	72	74	72	70		71	70	68		69	67	66	64
2	76	70	65	61	74	69	64	61	66	62	59		64	61	58		61	59	57	55
3	70	62	57	52	68	61	56	52	59	54	51		57	53	50		55	52	49	47
4	64	56	49	45	62	55	49	44	53	48	44		51	47	43		49	46	43	41
5	59	50	44	39	58	49	43	39	48	42	38		46	42	38		45	41	38	36
6	55	45	39	34	53	45	39	34	43	38	34		42	37	34		41	37	33	32
7	51	41	35	30	50	41	35	30	39	34	30		38	34	30		37	33	30	28
8	47	38	32	27	46	37	31	27	36	31	27		35	30	27		34	30	27	25
9	44	35	29	25	43	34	28	25	33	28	24		33	28	24		32	27	24	23
10	42	32	26	22	41	32	26	22	31	26	22		30	25	22		30	25	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2863	2863	2863
5°	2864	2878	2897
10°	2859	2916	2976
15°	2850	2975	3086
20°	2838	3038	3220
25°	2819	3112	3386
30°	2779	3187	3496
35°	2702	3180	3411
40°	2576	3042	3161
45°	2391	2766	2810
50°	2125	2404	2412
55°	1843	2036	2030
60°	1632	1663	1704
65°	1461	1310	1473
70°	1321	1059	1357
75°	1286	1080	1380
80°	1361	1311	1460
85°	1385	1484	1583



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	158.8	3.6	2.7	0°	1660	1660	1660	1660	1660	
10°-20°	470.8	10.8	8.1	5°	1654	1656	1662	1667	1673	157
20°-30°	752.5	17.3	13.0	15°	1596	1617	1666	1709	1728	450
30°-40°	918.4	21.1	15.8	25°	1481	1529	1635	1737	1779	682
40°-50°	843.7	19.4	14.5	35°	1283	1362	1510	1593	1620	800
50°-60°	598.4	13.7	10.3	45°	980	1038	1134	1154	1152	752
60°-70°	345.3	7.9	6.0	55°	613	658	677	682	675	554
70°-80°	192.4	4.4	3.3	65°	358	341	321	346	361	357
80°-90°	79.5	1.8	1.4	75°	193	170	162	184	207	206
90°-100°	0.0	0.0	0.0	85°	70	73	75	83	80	71
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	5
110°-120°	0.0	0.0	0.0	95°	0	0	0	0	0	0
120°-130°	0.0	0.0	0.0	105°	0	0	0	0	0	0
130°-140°	0.0	0.0	0.0	115°	0	0	0	0	0	0
140°-150°	0.0	0.0	0.0	125°	0	0	0	0	0	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	0	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	1382.1	31.7	23.8	165°	0	0	0	0	0	0
0°-40°	2300.5	52.8	39.7	175°	0	0	0	0	0	0
0°-60°	3742.7	85.8	64.5	180°	0	0	0	0	0	0
0°-90°	4359.9	100.0	75.2							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	4359.9	100.0	75.2							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1660	1660	1660	1660	1660
2.5°	1660	1659	1660	1662	1665
5°	1654	1656	1662	1667	1673
7.5°	1645	1650	1663	1677	1685
10°	1632	1642	1665	1688	1699
12.5°	1616	1631	1667	1699	1715
15°	1596	1617	1666	1709	1728
17.5°	1573	1600	1662	1716	1739
20°	1546	1581	1655	1723	1754
22.5°	1516	1557	1646	1731	1769
25°	1481	1529	1635	1737	1779
27.5°	1441	1495	1620	1733	1778
30°	1395	1457	1600	1712	1755
32.5°	1342	1413	1564	1666	1703
35°	1283	1362	1510	1593	1620
37.5°	1216	1298	1438	1501	1518
40°	1144	1221	1351	1395	1404
42.5°	1065	1134	1248	1277	1283
45°	980	1038	1134	1154	1152
47.5°	889	938	1013	1031	1022
50°	792	840	896	908	899
52.5°	698	747	783	790	786
55°	613	658	677	682	675
57.5°	538	573	577	582	579
60°	473	490	482	491	494
62.5°	412	411	397	412	422
65°	358	341	321	346	361
67.5°	307	280	257	290	309
70°	262	234	210	248	269
72.5°	224	198	180	213	237
75°	193	170	162	184	207
77.5°	166	147	150	161	177
80°	137	125	132	141	147
82.5°	104	101	107	116	115
85°	70	73	75	83	80
87.5°	35	39	38	44	41
90°	0	0	0	0	0
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	0	0	0
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)