

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: 117P106

Luminaire Tested: **2GCAVML-SS-2U6T8W77P**

Issue Date: 3/3/2020



**Test Information**

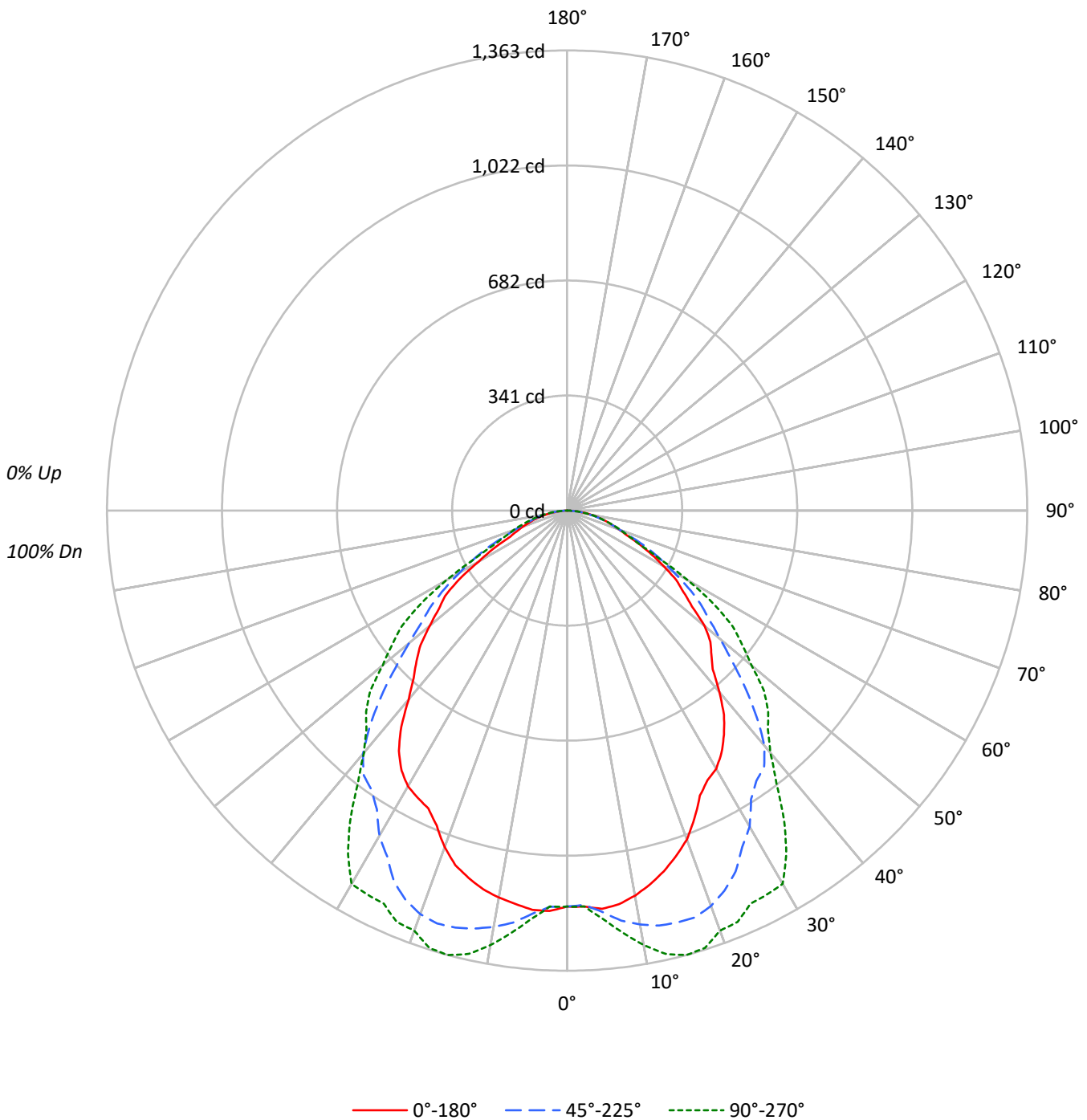
Test Method: LM-41-14  
Report Number: 117P106  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2GCAVML-SS-2U6T8W77P  
Description: 2 X 2 Recessed Air Supply Luminaire with a silver steel body  
and a 1.25" deep 49 cell white painted parabolic louver.  
Light Source: Two - FB31T8/TL735/6 - 2600 Lumens ea. - 31 Watts ea.  
Ballast/Driver: Advance REL-2P32-RH-TP Electronic - L.O.B.F. = 85.4

**Summary**

Lumens per Lamp: 2600 (2 lamps)  
Luminaire Lumens: 3052.2 lumens  
Efficiency: 58.7%  
Efficacy: 56.7 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.44 / 1.37  
Luminous Opening: Rectangular (W 1.74' x L: 1.76' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 53.8  
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	70	70	70	70	68	68	68	68	65	65	65	62	62	62	60	60	60	59
1	65	62	60	58	63	61	59	57	58	57	55	56	55	54	54	53	52	51
2	59	55	51	48	58	54	51	48	52	49	47	50	48	46	48	46	45	43
3	55	49	45	41	53	48	44	41	46	43	40	45	42	39	43	41	39	37
4	50	44	39	35	49	43	39	35	42	38	35	40	37	34	39	36	34	33
5	46	39	34	31	45	39	34	31	38	33	30	36	33	30	35	32	30	29
6	43	36	31	27	42	35	30	27	34	30	27	33	29	27	32	29	26	25
7	40	32	28	24	39	32	27	24	31	27	24	30	27	24	30	26	24	23
8	37	30	25	22	36	29	25	22	29	24	22	28	24	21	27	24	21	20
9	35	27	23	20	34	27	23	20	26	22	19	26	22	19	25	22	19	18
10	33	25	21	18	32	25	21	18	24	20	18	24	20	18	23	20	18	17

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

	0°	90°	180°
0°	4123	4123	4123
5°	4178	4283	4188
10°	4133	4665	4154
15°	4025	4960	4101
20°	3879	4952	3969
25°	3611	4984	3774
30°	3584	5183	3827
35°	3476	4810	3729
40°	3216	4295	3349
45°	3002	4185	3137
50°	2904	3899	2904
55°	2574	3671	2709
60°	2327	2903	2130
65°	1963	1963	1580
70°	1675	1727	1428
75°	1575	1589	1317
80°	1478	1457	1174
85°	1371	1210	928



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	115.7	3.8	2.2	0°	1173	1173	1173	1173	1173	
10°-20°	353.9	11.6	6.8	5°	1184	1193	1214	1199	1187	112
20°-30°	536.5	17.6	10.3	15°	1106	1263	1363	1279	1127	311
30°-40°	625.2	20.5	12.0	25°	931	1180	1285	1213	973	435
40°-50°	574.4	18.8	11.0	35°	810	977	1121	1010	869	503
50°-60°	447.6	14.7	8.6	45°	604	750	842	780	631	470
60°-70°	246.8	8.1	4.7	55°	420	483	599	491	442	380
70°-80°	118.6	3.9	2.3	65°	236	261	236	258	190	237
80°-90°	33.6	1.1	0.6	75°	116	113	117	108	97	123
90°-100°	0.0	0.0	0.0	85°	34	30	30	29	23	36
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	2
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°	1006.1	33.0	19.3	165°	0	0	0	0	0	0
0°-40°	1631.3	53.4	31.4	175°	0	0	0	0	0	0
0°-60°	2653.3	86.9	51.0	180°	0	0	0	0	0	0
0°-90°	3052.2	100.0	58.7							
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°	3052.2	100.0	58.7							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1173	1173	1173	1173	1173	1173	1173	1173	1173
2.5°	1174	1175	1169	1172	1174	1175	1175	1182	1187
5°	1184	1178	1193	1210	1214	1213	1199	1186	1187
7.5°	1176	1177	1225	1258	1261	1260	1231	1187	1175
10°	1158	1174	1245	1301	1307	1303	1252	1188	1164
12.5°	1134	1166	1259	1334	1345	1336	1268	1188	1149
15°	1106	1155	1263	1352	1363	1355	1279	1186	1127
17.5°	1073	1135	1263	1346	1358	1349	1282	1175	1101
20°	1037	1114	1246	1321	1324	1325	1272	1159	1061
22.5°	986	1083	1218	1285	1319	1288	1249	1133	1010
25°	931	1043	1180	1263	1285	1267	1213	1094	973
27.5°	900	1010	1123	1222	1282	1230	1155	1061	959
30°	883	992	1081	1207	1277	1217	1112	1043	943
32.5°	851	962	1014	1169	1208	1181	1049	1017	913
35°	810	919	977	1088	1121	1104	1010	978	869
37.5°	763	868	958	999	1018	1016	989	925	807
40°	701	808	909	902	936	919	941	861	730
42.5°	638	735	832	828	880	844	864	785	673
45°	604	680	750	767	842	780	780	721	631
47.5°	576	639	664	721	791	734	690	669	589
50°	531	591	591	662	713	671	611	614	531
52.5°	466	532	530	587	654	596	542	552	479
55°	420	473	483	529	599	537	491	492	442
57.5°	383	417	425	475	515	478	430	434	379
60°	331	355	363	402	413	400	368	362	303
62.5°	283	291	312	319	308	316	313	288	249
65°	236	237	261	244	236	242	258	226	190
67.5°	192	190	208	196	197	193	201	176	163
70°	163	159	166	167	168	163	159	149	139
72.5°	139	135	137	141	141	138	131	126	118
75°	116	112	113	116	117	114	108	105	97
77.5°	94	90	91	93	94	91	86	84	78
80°	73	68	69	71	72	70	66	65	58
82.5°	53	48	49	50	50	49	47	46	40
85°	34	29	30	30	30	29	29	28	23
87.5°	16	12	12	12	12	12	11	12	8
90°	0	0	0	0	0	0	0	0	0
92.5°	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)