

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: 104P244

Luminaire Tested: **2P2GAX-2U6T8W55P**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 104P244
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2P2GAX-2U6T8W55P
Description: 2 X 2 Recessed Convertible Body Luminaire with a 2"
deep 25 cell painted white 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

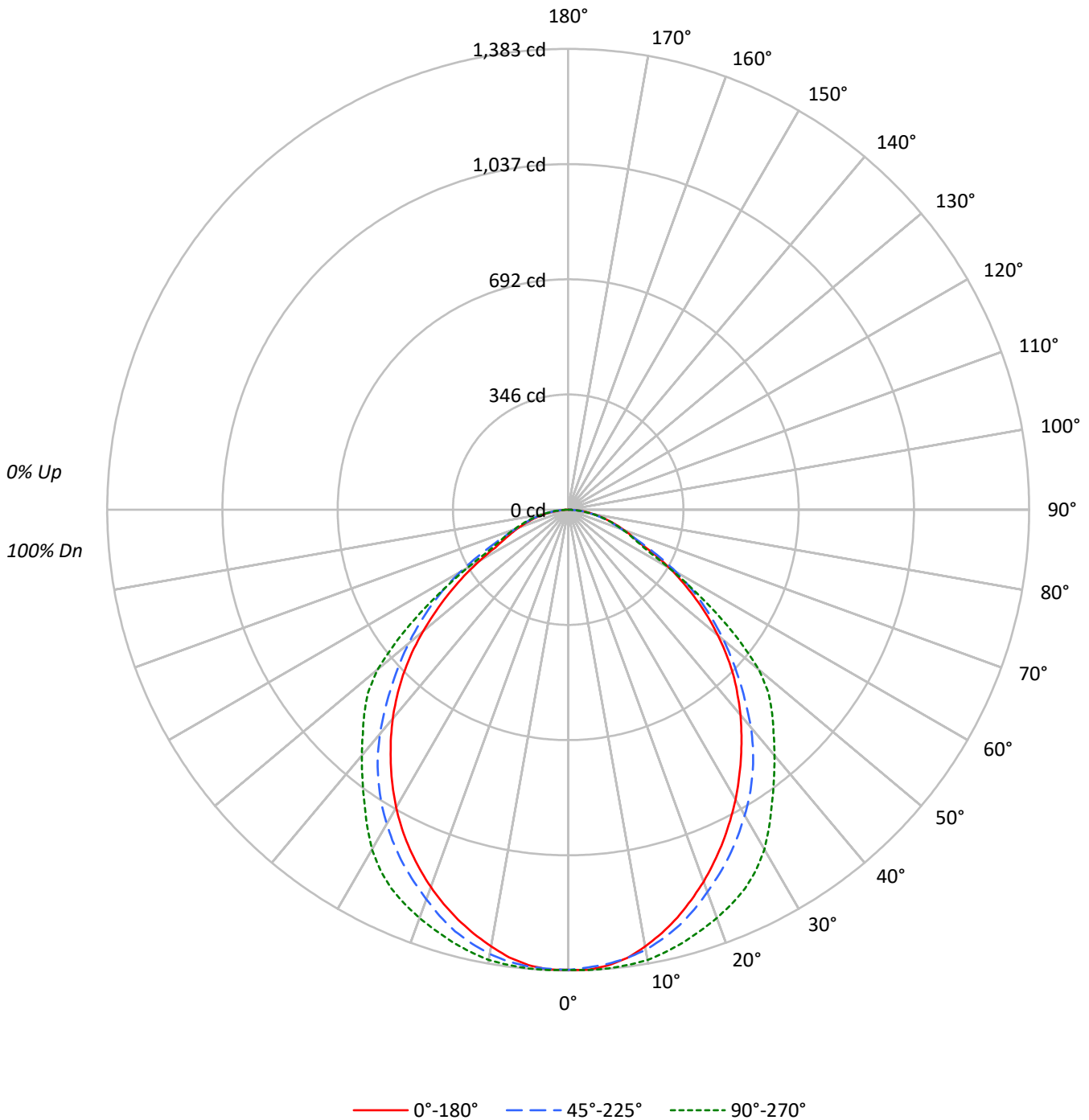
Lumens per Lamp: 2600 (2 lamps)
Luminaire Lumens: 3084.1 lumens
Efficiency: 59.3%
Efficacy: 56.1 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.25 / 1.26
Luminous Opening: Rectangular (W 1.74' x L: 1.76' x H: 0')
CIE Type: Direct

Input Watts (W): 55
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	71	71	71	71	69	69	69	69	66	66	66	63	63	63	61	61	61	59
1	65	63	61	59	64	61	59	58	59	57	56	57	55	54	55	53	52	51
2	60	56	52	49	59	55	51	48	52	50	47	51	48	46	49	47	45	44
3	55	50	45	42	54	49	45	41	47	43	41	45	42	40	44	41	39	38
4	51	44	40	36	50	44	39	36	42	38	35	41	37	35	40	37	34	33
5	47	40	35	31	46	39	35	31	38	34	31	37	33	31	36	33	30	29
6	44	36	31	28	43	36	31	28	35	30	27	34	30	27	33	29	27	26
7	41	33	28	25	40	33	28	25	32	27	24	31	27	24	30	27	24	23
8	38	30	25	22	37	30	25	22	29	25	22	28	25	22	28	24	22	21
9	35	28	23	20	35	28	23	20	27	23	20	26	23	20	26	22	20	19
10	33	26	21	18	33	25	21	18	25	21	18	24	21	18	24	20	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	4854	4854	4854
5°	4844	4876	4841
10°	4750	4897	4750
15°	4610	4887	4636
20°	4444	4878	4507
25°	4262	4867	4359
30°	4075	4777	4188
35°	3879	4578	3982
40°	3689	4419	3758
45°	3485	4300	3480
50°	3204	4079	3111
55°	2868	3334	2660
60°	2481	2446	2158
65°	1971	1905	1755
70°	1819	1778	1624
75°	1698	1657	1494
80°	1579	1518	1336
85°	1452	1291	1049



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	130.4	4.2	2.5	0°	1381	1381	1381	1381	1381	
10°-20°	367.1	11.9	7.1	5°	1373	1368	1382	1376	1372	130
20°-30°	538.8	17.5	10.4	15°	1267	1291	1343	1310	1274	356
30°-40°	613.6	19.9	11.8	25°	1099	1145	1255	1172	1124	506
40°-50°	584.9	19.0	11.2	35°	904	965	1067	993	928	565
50°-60°	444.5	14.4	8.5	45°	701	727	865	749	700	538
60°-70°	242.4	7.9	4.7	55°	468	492	544	502	434	419
70°-80°	126.6	4.1	2.4	65°	237	252	229	249	211	248
80°-90°	35.9	1.2	0.7	75°	125	119	122	117	110	133
90°-100°	0.0	0.0	0.0	85°	36	31	32	32	26	38
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°	1036.3	33.6	19.9	165°	0	0	0	0	0	0
0°-40°	1649.8	53.5	31.7	175°	0	0	0	0	0	0
0°-60°	2679.2	86.9	51.5	180°	0	0	0	0	0	0
0°-90°	3084.1	100.0	59.3							
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°	3084.1	100.0	59.3							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1381	1381	1381	1381	1381	1381	1381	1381	1381
2.5°	1382	1376	1375	1381	1383	1382	1379	1380	1381
5°	1373	1366	1368	1377	1382	1381	1376	1375	1372
7.5°	1357	1349	1357	1371	1378	1376	1368	1362	1355
10°	1331	1326	1341	1362	1372	1368	1354	1342	1331
12.5°	1301	1297	1318	1347	1359	1355	1334	1317	1304
15°	1267	1265	1291	1324	1343	1334	1310	1288	1274
17.5°	1228	1229	1258	1301	1324	1311	1279	1257	1241
20°	1188	1189	1221	1275	1304	1285	1244	1223	1205
22.5°	1144	1148	1184	1245	1281	1256	1209	1186	1166
25°	1099	1104	1145	1213	1255	1224	1172	1146	1124
27.5°	1052	1059	1103	1176	1220	1188	1132	1103	1080
30°	1004	1011	1059	1132	1177	1143	1089	1055	1032
32.5°	954	961	1014	1079	1123	1091	1043	1004	981
35°	904	911	965	1020	1067	1032	993	953	928
37.5°	854	861	911	959	1014	971	939	900	874
40°	804	810	853	902	963	915	879	845	819
42.5°	752	758	789	845	912	858	814	789	761
45°	701	706	727	790	865	803	749	731	700
47.5°	644	651	667	738	815	750	687	671	636
50°	586	592	608	682	746	692	625	608	569
52.5°	528	531	549	612	650	620	563	542	500
55°	468	468	492	525	544	531	502	475	434
57.5°	410	407	434	436	441	441	439	408	370
60°	353	347	374	352	348	357	374	343	307
62.5°	295	290	310	283	270	285	308	281	247
65°	237	235	252	230	229	228	249	226	211
67.5°	206	199	205	199	201	197	202	192	184
70°	177	171	171	172	173	170	167	165	158
72.5°	151	144	144	146	147	145	141	140	134
75°	125	119	119	121	122	120	117	116	110
77.5°	101	95	96	98	99	97	95	93	88
80°	78	73	73	75	75	74	73	72	66
82.5°	57	51	52	52	52	52	51	51	46
85°	36	31	31	31	32	32	32	31	26
87.5°	17	13	12	12	12	12	13	13	9
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)