

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: 214P110

Luminaire Tested: **2GCASF-2U6T8A125**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 214P110
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GCASF-2U6T8A125
Description: 2 X 2 Recessed Air Supply Convertible Body
Luminaire with a .125 pattern 12 acrylic lens.
Light Source: Two - FB31T8/TL735/6 - 2600 Lumens ea. - 32 Watts ea.
Ballast/Driver: Advance REL-2P32-RH-TP Electronic - L.O.B.F. = 85.4

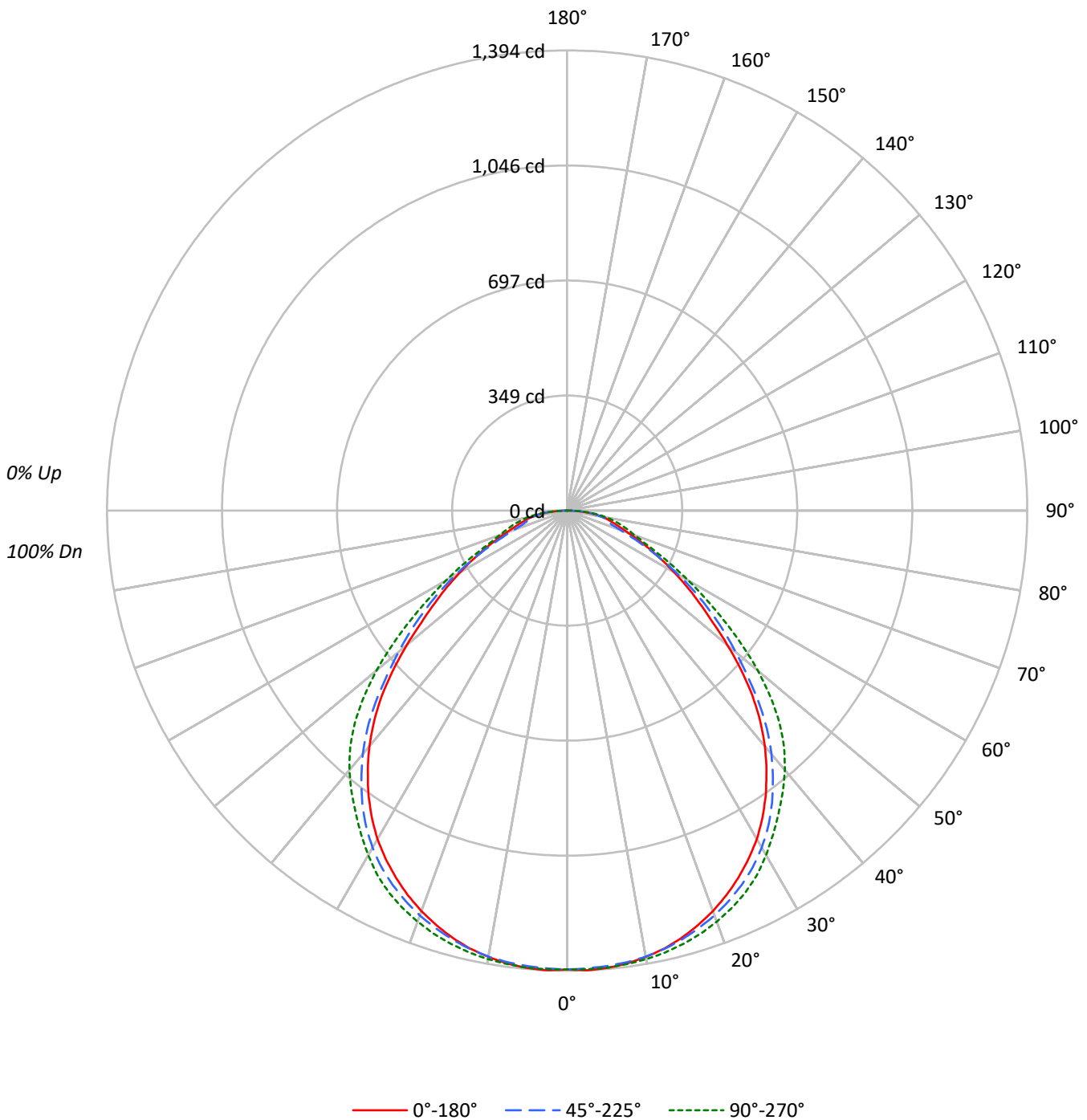
Summary

Lumens per Lamp: 2600 (2 lamps)
Luminaire Lumens: 3377.1 lumens
Efficiency: 64.9%
Efficacy: 63.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.32
Luminous Opening: Rectangular (W 1.7' x L: 1.7' x H: 0')
CIE Type: Direct

Input Watts (W): 53.3
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

TEST NUMBER: 214P110
CATALOG NUMBER: 2GCASF-2U6T8A125

Luminous Intensity Polar Plot





TEST NUMBER: 214P110

CATALOG NUMBER: 2GCASF-2U6T8A125

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	77	77	77	77	76	76	76	76	72	72	72	69	69	69	66	66	66	65
1	71	68	66	63	69	67	65	62	64	62	61	62	60	59	59	58	57	56
2	65	60	56	53	64	59	55	52	57	54	51	55	52	50	53	51	49	47
3	60	54	49	45	58	53	48	44	51	47	44	49	46	43	47	45	42	41
4	55	48	43	39	54	47	42	38	46	41	38	44	40	37	43	39	37	35
5	51	43	38	34	50	42	37	33	41	37	33	40	36	33	39	35	32	31
6	47	39	34	30	46	38	33	29	37	33	29	36	32	29	35	32	29	27
7	44	36	30	26	43	35	30	26	34	29	26	33	29	26	32	29	26	24
8	41	33	27	24	40	32	27	24	31	27	23	31	26	23	30	26	23	22
9	38	30	25	21	37	30	25	21	29	24	21	28	24	21	28	24	21	20
10	36	28	23	19	35	27	23	19	27	22	19	26	22	19	26	22	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5174	5174	5174
5°	5198	5175	5194
10°	5190	5186	5216
15°	5164	5183	5237
20°	5114	5169	5249
25°	5039	5138	5245
30°	4939	5068	5179
35°	4767	4917	5076
40°	4529	4679	4986
45°	4180	4322	4790
50°	3671	3857	4366
55°	3180	3414	3758
60°	2792	2903	3157
65°	2422	2334	2616
70°	2144	1861	2362
75°	2085	1827	2445
80°	2272	2272	2637
85°	2349	2605	2776



TEST NUMBER: 214P110

CATALOG NUMBER: 2GCASF-2U6T8A125

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	132.0	3.9	2.5	0°	1390	1390	1390	1390	1390	
10°-20°	380.0	11.3	7.3	5°	1391	1386	1385	1388	1390	132
20°-30°	575.6	17.0	11.1	15°	1340	1338	1345	1354	1359	378
30°-40°	674.7	20.0	13.0	25°	1227	1232	1251	1268	1277	565
40°-50°	640.1	19.0	12.3	35°	1049	1062	1082	1097	1117	654
50°-60°	477.4	14.1	9.2	45°	794	793	821	874	910	608
60°-70°	281.2	8.3	5.4	55°	490	500	526	570	579	442
70°-80°	153.1	4.5	2.9	65°	275	267	265	295	297	276
80°-90°	62.9	1.9	1.2	75°	145	134	127	149	170	156
90°-100°	0.0	0.0	0.0	85°	55	55	61	67	65	55
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	4
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°	1087.6	32.2	20.9	165°	0	0	0	0	0	0
0°-40°	1762.4	52.2	33.9	175°	0	0	0	0	0	0
0°-60°	2879.9	85.3	55.4	180°	0	0	0	0	0	0
0°-90°	3377.1	100.0	64.9							
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°	3377.1	100.0	64.9							



TEST NUMBER: 214P110

CATALOG NUMBER: 2GCASF-2U6T8A125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1390	1390	1390	1390	1390
2.5°	1394	1388	1388	1389	1391
5°	1391	1386	1385	1388	1390
7.5°	1384	1379	1380	1383	1386
10°	1373	1369	1372	1377	1380
12.5°	1359	1356	1360	1367	1371
15°	1340	1338	1345	1354	1359
17.5°	1317	1316	1326	1339	1344
20°	1291	1291	1305	1319	1325
22.5°	1261	1263	1280	1296	1303
25°	1227	1232	1251	1268	1277
27.5°	1190	1196	1218	1236	1245
30°	1149	1157	1179	1196	1205
32.5°	1102	1112	1134	1149	1162
35°	1049	1062	1082	1097	1117
37.5°	992	1004	1024	1046	1073
40°	932	939	963	996	1026
42.5°	866	869	896	939	973
45°	794	793	821	874	910
47.5°	715	713	740	799	836
50°	634	637	666	720	754
52.5°	556	567	596	643	667
55°	490	500	526	570	579
57.5°	431	437	458	497	497
60°	375	376	390	425	424
62.5°	323	319	325	357	358
65°	275	267	265	295	297
67.5°	233	221	213	245	250
70°	197	184	171	205	217
72.5°	168	156	142	174	192
75°	145	134	127	149	170
77.5°	127	116	119	129	147
80°	106	98	106	113	123
82.5°	82	79	85	94	96
85°	55	55	61	67	65
87.5°	26	28	30	33	30
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



TEST NUMBER: 214P110

CATALOG NUMBER: 2GCASF-2U6T8A125

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)