

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: 214P111

Luminaire Tested: **2GCASF-2U6T8A**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 214P111
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GCASF-2U6T8A
Description: 2 X 2 Recessed Air Supply Convertible Body
Luminaire with a .095 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

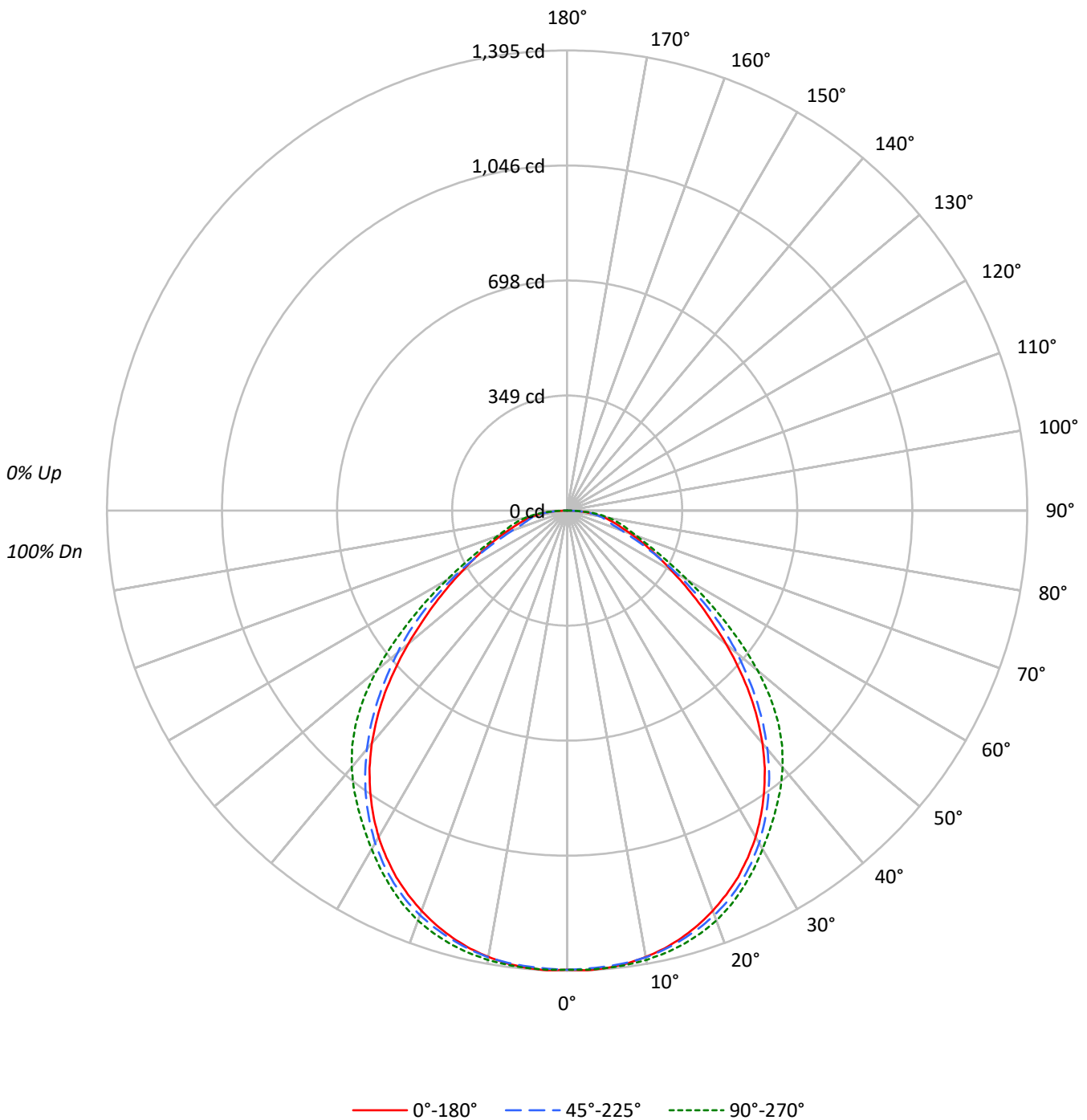
Summary

Lumens per Lamp: 2600 (2 lamps)
Luminaire Lumens: 3364.0 lumens
Efficiency: 64.7%
Efficacy: 63.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.31
Luminous Opening: Rectangular (W 1.7' x L: 1.7' x H: 0')
CIE Type: Direct

Input Watts (W): 53.1
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: 214P111
CATALOG NUMBER: 2GCASF-2U6T8A

Luminous Intensity Polar Plot





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CATALOG NUMBER: 2GCASF-2U6T8A

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	75	75	75	75	72	72	72		69	69	69		66	66	66	65
1	71	68	65	63	69	67	64	62	64	62	60		61	60	58		59	58	57	55
2	65	60	56	53	63	59	55	52	57	53	51		55	52	50		53	50	49	47
3	60	53	48	45	58	52	48	44	50	47	43		49	45	43		47	44	42	41
4	55	48	42	38	54	47	42	38	45	41	38		44	40	37		42	39	37	35
5	51	43	37	33	49	42	37	33	41	36	33		40	36	33		38	35	32	31
6	47	39	33	29	46	38	33	29	37	33	29		36	32	29		35	31	29	27
7	44	35	30	26	43	35	30	26	34	29	26		33	29	26		32	28	26	24
8	41	32	27	24	40	32	27	23	31	27	23		30	26	23		30	26	23	22
9	38	30	25	21	37	29	25	21	29	24	21		28	24	21		27	24	21	20
10	36	28	23	19	35	27	23	19	27	22	19		26	22	19		25	22	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5182	5182	5182
5°	5201	5183	5201
10°	5193	5197	5227
15°	5168	5191	5245
20°	5114	5169	5241
25°	5035	5113	5183
30°	4913	5003	5093
35°	4730	4830	5017
40°	4475	4587	4937
45°	4111	4269	4759
50°	3643	3892	4366
55°	3154	3440	3771
60°	2732	2866	3149
65°	2431	2316	2651
70°	2231	1915	2427
75°	2172	1841	2517
80°	2358	2186	2787
85°	2477	2434	3032



TEST NUMBER: 214P111

CATALOG NUMBER: 2GCASF-2U6T8A

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	132.2	3.9	2.5	0°	1392	1392	1392	1392	1392	
10°-20°	380.5	11.3	7.3	5°	1392	1389	1387	1389	1392	132
20°-30°	572.3	17.0	11.0	15°	1341	1341	1347	1356	1361	378
30°-40°	666.2	19.8	12.8	25°	1226	1232	1245	1256	1262	564
40°-50°	634.1	18.9	12.2	35°	1041	1048	1063	1085	1104	649
50°-60°	473.7	14.1	9.1	45°	781	784	811	865	904	600
60°-70°	280.3	8.3	5.4	55°	486	492	530	561	581	438
70°-80°	160.7	4.8	3.1	65°	276	264	263	293	301	277
80°-90°	64.0	1.9	1.2	75°	151	146	128	164	175	162
90°-100°	0.0	0.0	0.0	85°	58	56	57	69	71	58
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°	1084.9	32.3	20.9	165°	0	0	0	0	0	0
0°-40°	1751.1	52.1	33.7	175°	0	0	0	0	0	0
0°-60°	2859.0	85.0	55.0	180°	0	0	0	0	0	0
0°-90°	3364.0	100.0	64.7							
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°	3364.0	100.0	64.7							



TEST NUMBER: 214P111

CATALOG NUMBER: 2GCASF-2U6T8A

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1392	1392	1392	1392	1392
2.5°	1395	1392	1390	1391	1393
5°	1392	1389	1387	1389	1392
7.5°	1385	1382	1383	1385	1389
10°	1374	1373	1375	1379	1383
12.5°	1360	1359	1363	1369	1374
15°	1341	1341	1347	1356	1361
17.5°	1318	1320	1328	1338	1344
20°	1291	1294	1305	1316	1323
22.5°	1260	1265	1278	1289	1295
25°	1226	1232	1245	1256	1262
27.5°	1186	1193	1207	1218	1225
30°	1143	1150	1164	1176	1185
32.5°	1094	1102	1115	1131	1145
35°	1041	1048	1063	1085	1104
37.5°	984	989	1006	1038	1062
40°	921	926	944	987	1016
42.5°	853	857	880	929	964
45°	781	784	811	865	904
47.5°	704	708	741	795	833
50°	629	634	672	721	754
52.5°	554	562	603	642	668
55°	486	492	530	561	581
57.5°	424	424	456	482	499
60°	367	363	385	409	423
62.5°	319	309	320	346	356
65°	276	264	263	293	301
67.5°	239	226	215	251	257
70°	205	194	176	218	223
72.5°	175	168	147	190	196
75°	151	146	128	164	175
77.5°	130	124	115	141	154
80°	110	101	102	118	130
82.5°	85	79	82	95	103
85°	58	56	57	69	71
87.5°	28	30	29	34	34
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: 214P111

CATALOG NUMBER: 2GCASF-2U6T8A

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)