

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: 104P245

Luminaire Tested: **2P2GAX-2U6T8W55PO/40**

Issue Date: 3/3/2020



**Test Information**

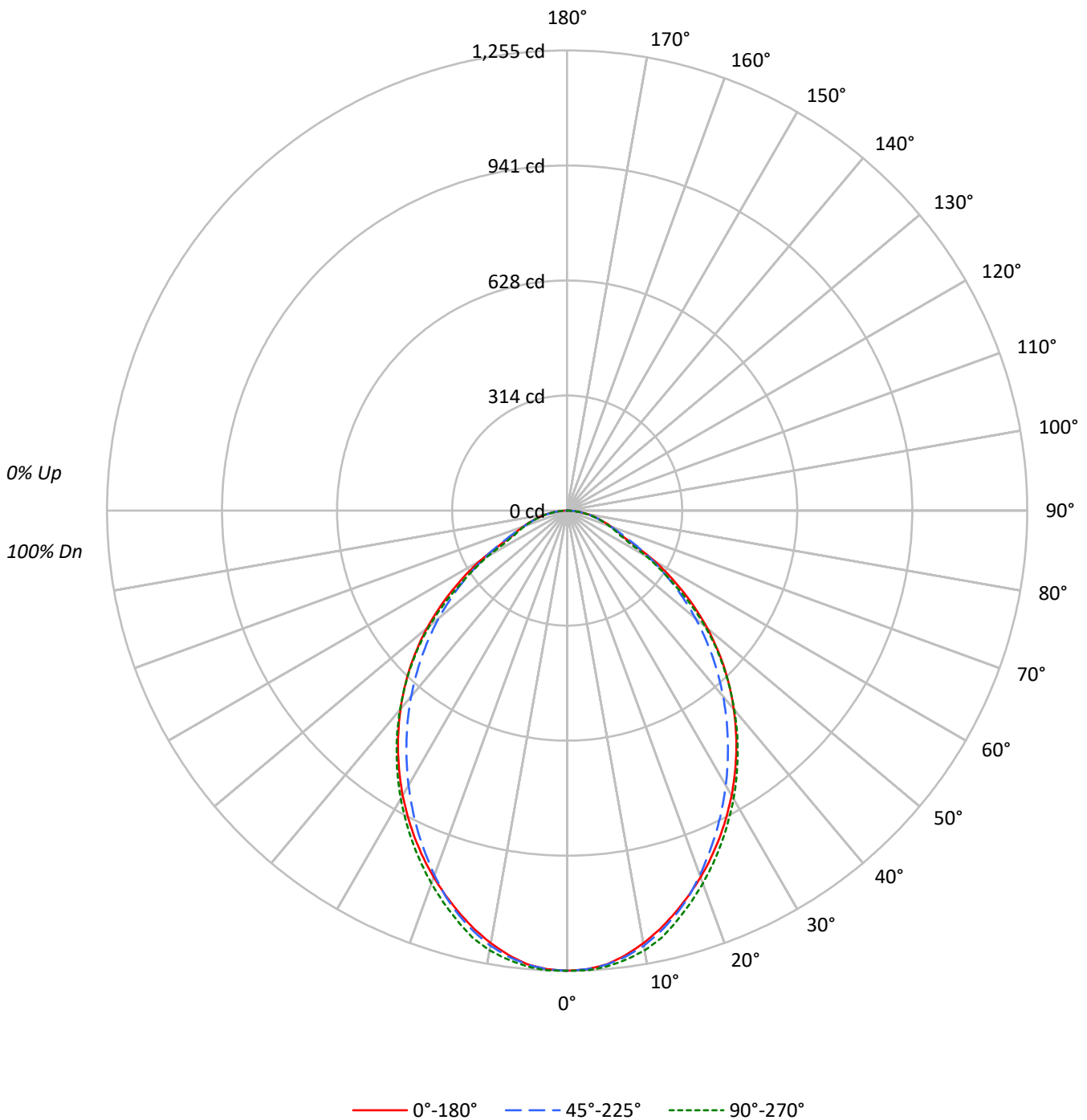
Test Method: LM-41-14  
Report Number: 104P245  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2P2GAX-2U6T8W55PO/40  
Description: 2 X 2 Recessed Convertible Body Luminaire with a 2"  
deep 25 cell painted white parabolic louver and white splay.  
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: 2446.4 lumens  
Efficiency: 47.0%  
Efficacy: 45.3 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.1 / 1.16  
Luminous Opening: Rectangular (W 1.74' x L: 1.76' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 54  
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	56	56	56	56	55	55	55	55	52	52	52	50	50	50	48	48	48	47
1	52	50	48	47	51	49	47	46	47	46	44	45	44	43	43	43	42	41
2	48	44	42	39	47	44	41	39	42	40	38	40	39	37	39	38	36	35
3	44	40	36	34	43	39	36	33	38	35	33	36	34	32	35	33	32	31
4	41	36	32	29	40	35	32	29	34	31	29	33	30	28	32	30	28	27
5	38	32	28	26	37	32	28	25	31	28	25	30	27	25	29	27	25	24
6	35	29	25	23	34	29	25	23	28	25	22	27	24	22	27	24	22	21
7	33	27	23	20	32	26	23	20	26	23	20	25	22	20	25	22	20	19
8	31	25	21	18	30	24	21	18	24	21	18	23	20	18	23	20	18	17
9	29	23	19	17	28	23	19	17	22	19	17	22	19	17	21	18	16	16
10	27	21	18	15	26	21	18	15	20	17	15	20	17	15	20	17	15	14

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

	0°	45°	90°
0°	4411	4411	4411
5°	4382	4386	4403
10°	4276	4301	4347
15°	4134	4156	4214
20°	3980	3957	4047
25°	3816	3739	3870
30°	3641	3511	3685
35°	3450	3278	3480
40°	3244	3037	3253
45°	3012	2779	2997
50°	2729	2499	2685
55°	2372	2182	2237
60°	1933	1849	1757
65°	1397	1514	1322
70°	1305	1274	1254
75°	1222	1195	1181
80°	1134	1113	1113
85°	968	968	928



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	117.5	4.8	2.3	0°	1255	1255	1255	1255	1255	
10°-20°	321.4	13.1	6.2	5°	1242	1241	1243	1245	1248	117
20°-30°	449.3	18.4	8.6	15°	1136	1136	1142	1152	1158	320
30°-40°	489.6	20.0	9.4	25°	984	977	964	977	998	453
40°-50°	445.1	18.2	8.6	35°	804	784	764	780	811	502
50°-60°	325.3	13.3	6.3	45°	606	577	559	571	603	466
60°-70°	177.5	7.3	3.4	55°	387	366	356	355	365	345
70°-80°	93.6	3.8	1.8	65°	168	173	182	161	159	180
80°-90°	27.3	1.1	0.5	75°	90	89	88	87	87	95
90°-100°	0.0	0.0	0.0	85°	24	24	24	24	23	26
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	1
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°	888.1	36.3	17.1	165°	0	0	0	0	0	0
0°-40°	1377.7	56.3	26.5	175°	0	0	0	0	0	0
0°-60°	2148.0	87.8	41.3	180°	0	0	0	0	0	0
0°-90°	2446.4	100.0	47.0							
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°	2446.4	100.0	47.0							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1255	1255	1255	1255	1255
2.5°	1252	1251	1252	1252	1255
5°	1242	1241	1243	1245	1248
7.5°	1223	1223	1227	1231	1235
10°	1198	1198	1205	1212	1218
12.5°	1169	1168	1176	1187	1193
15°	1136	1136	1142	1152	1158
17.5°	1101	1099	1103	1111	1121
20°	1064	1061	1058	1068	1082
22.5°	1025	1020	1011	1023	1041
25°	984	977	964	977	998
27.5°	941	932	915	929	953
30°	897	884	865	880	908
32.5°	851	835	815	830	860
35°	804	784	764	780	811
37.5°	756	732	713	728	761
40°	707	681	662	676	709
42.5°	657	629	610	624	657
45°	606	577	559	571	603
47.5°	553	524	508	518	549
50°	499	472	457	465	491
52.5°	443	419	406	411	430
55°	387	366	356	355	365
57.5°	330	315	308	301	307
60°	275	265	263	252	250
62.5°	213	219	221	205	191
65°	168	173	182	161	159
67.5°	147	145	150	141	140
70°	127	126	124	122	122
72.5°	108	107	105	105	104
75°	90	89	88	87	87
77.5°	72	72	71	71	71
80°	56	55	55	54	55
82.5°	40	39	39	39	38
85°	24	24	24	24	23
87.5°	10	10	10	10	10
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)