

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: 126P133

Luminaire Tested: **2GC-2U6T8A125**

Issue Date: 3/3/2020



**Test Information**

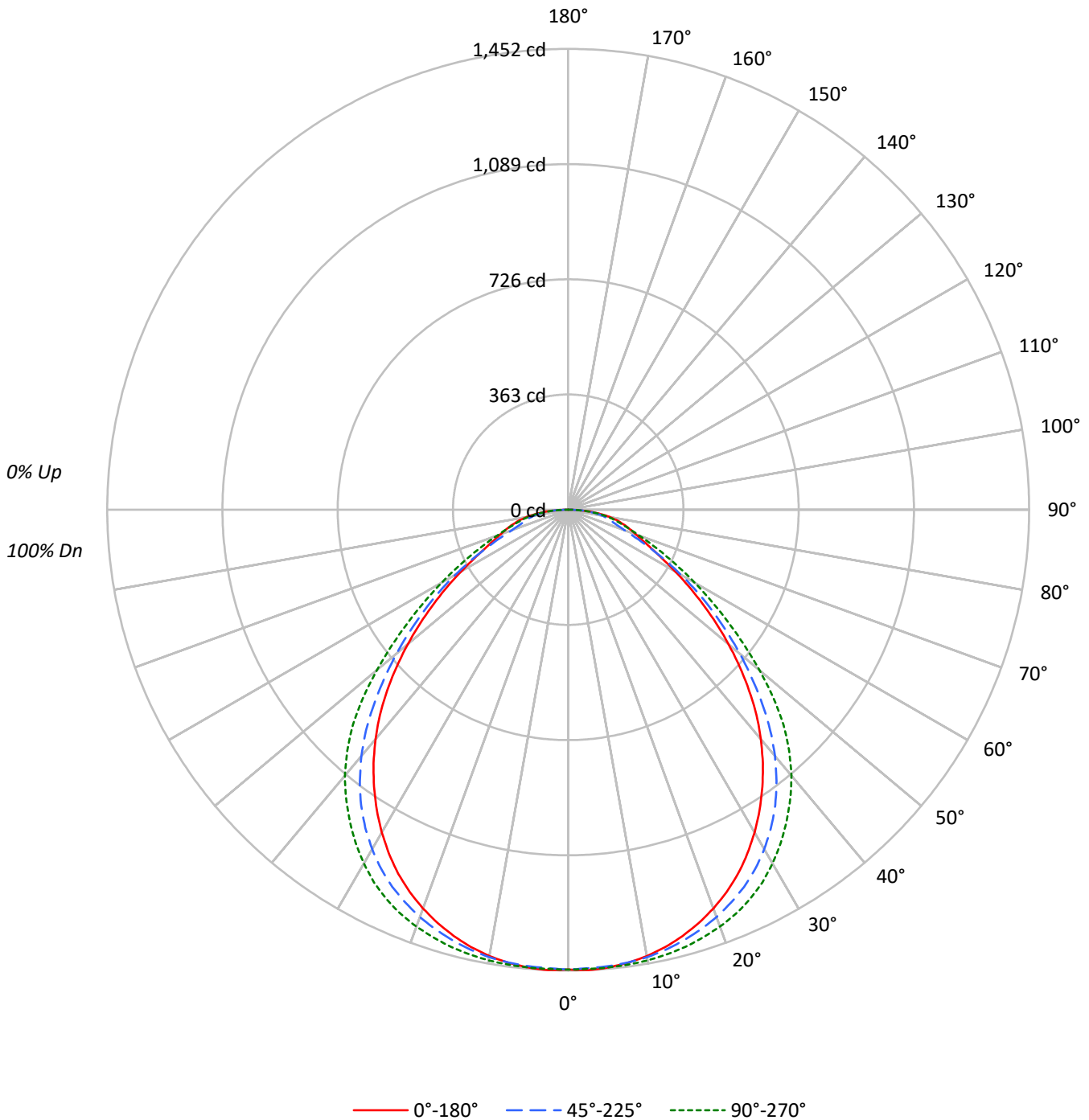
Test Method: LM-41-14  
Report Number: 126P133  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2GC-2U6T8A125  
Description: 2 X 2 Recessed Convertible Body Luminaire with a  
.125 pattern 12 acrylic lens.  
Light 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: 3557.5 lumens  
Efficiency: 68.4%  
Efficacy: 66.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.31 / 1.32  
Luminous Opening: Rectangular (W 1.79' x L: 1.81' 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

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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	81	81	81	81	80	80	80	80	76	76	76	73	73	73	70	70	70	68
1	75	72	69	67	73	70	68	66	68	65	64	65	63	62	62	61	60	58
2	69	64	59	56	67	62	58	55	60	56	54	58	55	52	56	53	51	50
3	63	56	51	47	61	55	50	47	53	49	46	51	48	45	50	47	44	43
4	58	50	45	40	57	49	44	40	48	43	40	46	42	39	45	41	39	37
5	54	45	39	35	52	45	39	35	43	38	35	42	38	34	41	37	34	33
6	50	41	35	31	48	40	35	31	39	34	31	38	34	30	37	33	30	29
7	46	37	32	28	45	37	31	27	36	31	27	35	30	27	34	30	27	26
8	43	34	29	25	42	34	28	25	33	28	25	32	28	24	31	27	24	23
9	40	31	26	22	39	31	26	22	30	26	22	30	25	22	29	25	22	21
10	38	29	24	20	37	29	24	20	28	23	20	27	23	20	27	23	20	19

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

	0°	45°	90°
0°	4817	4817	4817
5°	4832	4819	4832
10°	4820	4834	4867
15°	4787	4835	4908
20°	4730	4832	4946
25°	4644	4809	4966
30°	4506	4741	4940
35°	4326	4614	4866
40°	4096	4396	4747
45°	3789	4062	4508
50°	3408	3646	4070
55°	2991	3205	3547
60°	2586	2726	3058
65°	2273	2218	2627
70°	2197	1827	2303
75°	2338	1824	2222
80°	2546	2106	2393
85°	2670	2327	2479



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	137.6	3.9	2.6	0°	1449	1449	1449	1449	1449	
10°-20°	397.1	11.2	7.6	5°	1448	1444	1444	1448	1448	138
20°-30°	602.8	16.9	11.6	15°	1391	1393	1405	1421	1426	392
30°-40°	707.1	19.9	13.6	25°	1266	1277	1311	1343	1354	582
40°-50°	670.2	18.8	12.9	35°	1066	1085	1137	1180	1199	665
50°-60°	502.6	14.1	9.7	45°	806	823	864	920	959	620
60°-70°	301.7	8.5	5.8	55°	516	524	553	601	612	464
70°-80°	170.1	4.8	3.3	65°	289	289	282	314	334	293
80°-90°	68.2	1.9	1.3	75°	182	162	142	156	173	191
90°-100°	0.0	0.0	0.0	85°	70	70	61	62	65	70
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	5
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°	1137.5	32.0	21.9	165°	0	0	0	0	0	0
0°-40°	1844.7	51.9	35.5	175°	0	0	0	0	0	0
0°-60°	3017.5	84.8	58.0	180°	0	0	0	0	0	0
0°-90°	3557.5	100.0	68.4							
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°	3557.5	100.0	68.4							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1449	1449	1449	1449	1449
2.5°	1452	1448	1446	1449	1448
5°	1448	1444	1444	1448	1448
7.5°	1440	1437	1439	1445	1446
10°	1428	1427	1432	1440	1442
12.5°	1412	1412	1420	1432	1435
15°	1391	1393	1405	1421	1426
17.5°	1366	1370	1387	1407	1413
20°	1337	1343	1366	1390	1398
22.5°	1304	1313	1340	1369	1379
25°	1266	1277	1311	1343	1354
27.5°	1222	1237	1276	1311	1324
30°	1174	1191	1235	1273	1287
32.5°	1122	1140	1189	1230	1246
35°	1066	1085	1137	1180	1199
37.5°	1007	1025	1078	1126	1149
40°	944	962	1013	1064	1094
42.5°	878	895	942	996	1030
45°	806	823	864	920	959
47.5°	733	748	784	840	876
50°	659	672	705	760	787
52.5°	587	596	628	681	697
55°	516	524	553	601	612
57.5°	450	456	481	523	533
60°	389	395	410	448	460
62.5°	334	339	343	378	393
65°	289	289	282	314	334
67.5°	253	247	229	259	282
70°	226	213	188	215	237
72.5°	204	186	160	181	201
75°	182	162	142	156	173
77.5°	159	139	128	132	150
80°	133	119	110	109	125
82.5°	103	97	88	86	95
85°	70	70	61	62	65
87.5°	35	38	33	34	33
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)