

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: 104P232

Luminaire Tested: **2P2GX-2U6T8W33P**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 104P232
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2P2GX-2U6T8W33P
Description: 2 X 2 Recessed Convertible Body Troffer with
a painted white 9 cell parabolic louver.
Light Source: Two-FB31T8/TL735/6 - 2600 Lumens ea. - 31 Watts ea.
Ballast/Driver: Advance REL-2P32-RH-TP - L.O.B.F. = 85.4

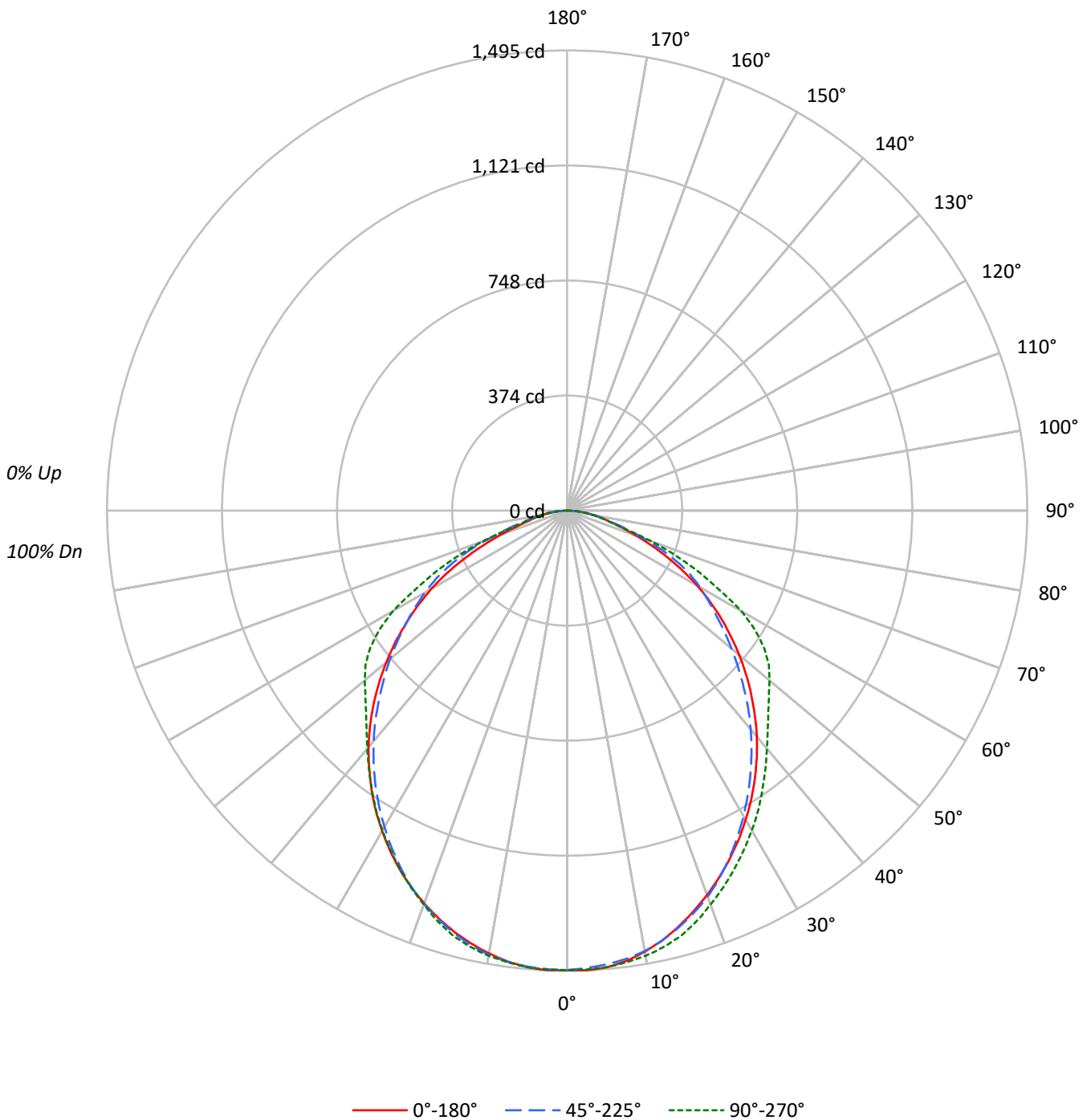
Summary

Lumens per Lamp: 2600 (2 lamps)
Luminaire Lumens: 3665.0 lumens
Efficiency: 70.5%
Efficacy: 67.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.2 / 1.27
Luminous Opening: Rectangular (W 1.97' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 54.2
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	84	84	84	84	82	82	82	82	78	78	78	75	75	75	72	72	72	70
1	77	74	71	69	75	73	70	68	70	67	66	67	65	64	64	63	62	60
2	71	65	61	57	69	64	60	56	61	58	55	59	56	54	57	55	52	51
3	65	58	52	48	63	56	51	47	54	50	47	52	49	46	51	48	45	43
4	59	51	45	41	58	50	45	41	49	44	40	47	43	39	45	42	39	37
5	55	46	40	35	53	45	39	35	44	39	35	42	38	34	41	37	34	33
6	51	42	35	31	49	41	35	31	40	34	31	38	34	30	37	33	30	29
7	47	38	32	28	46	37	31	27	36	31	27	35	30	27	34	30	27	25
8	44	35	29	25	43	34	28	25	33	28	24	32	28	24	31	27	24	23
9	41	32	26	22	40	31	26	22	31	26	22	30	25	22	29	25	22	21
10	38	29	24	20	38	29	24	20	28	23	20	28	23	20	27	23	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	4113	4113	4113
5°	4118	4118	4118
10°	4071	4110	4087
15°	3990	4079	4042
20°	3897	3993	3982
25°	3797	3906	3912
30°	3690	3818	3824
35°	3575	3720	3727
40°	3449	3633	3611
45°	3296	3600	3464
50°	3129	3678	3288
55°	2935	3756	3069
60°	2689	3604	2810
65°	2353	3077	2386
70°	1933	2328	1853
75°	1565	1522	1394
80°	1476	1412	1285
85°	1391	1296	1075



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	141.1	3.8	2.7	0°	1493	1493	1493	1493	1493	
10°-20°	398.6	10.9	7.7	5°	1489	1480	1489	1487	1489	141
20°-30°	584.4	15.9	11.2	15°	1399	1402	1430	1421	1417	394
30°-40°	674.9	18.4	13.0	25°	1249	1246	1285	1280	1287	575
40°-50°	668.4	18.2	12.9	35°	1063	1039	1106	1086	1108	665
50°-60°	586.7	16.0	11.3	45°	846	811	924	863	889	652
60°-70°	399.3	10.9	7.7	55°	611	590	782	638	639	545
70°-80°	166.6	4.5	3.2	65°	361	395	472	419	366	358
80°-90°	45.1	1.2	0.9	75°	147	156	143	157	131	164
90°-100°	0.0	0.0	0.0	85°	44	40	41	40	34	46
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	3
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°	1124.1	30.7	21.6	165°	0	0	0	0	0	0
0°-40°	1798.9	49.1	34.6	175°	0	0	0	0	0	0
0°-60°	3054.0	83.3	58.7	180°	0	0	0	0	0	0
0°-90°	3665.0	100.0	70.5							
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°	3665.0	100.0	70.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1493	1493	1493	1493	1493	1493	1493	1493	1493
2.5°	1495	1489	1487	1491	1492	1492	1491	1493	1495
5°	1489	1481	1480	1486	1489	1489	1487	1489	1489
7.5°	1476	1468	1469	1477	1480	1481	1479	1480	1478
10°	1455	1448	1453	1463	1469	1469	1465	1464	1461
12.5°	1430	1423	1430	1444	1452	1452	1446	1444	1441
15°	1399	1393	1402	1421	1430	1431	1421	1419	1417
17.5°	1365	1359	1370	1390	1399	1401	1392	1391	1389
20°	1329	1322	1335	1352	1362	1364	1360	1360	1358
22.5°	1290	1283	1293	1310	1325	1324	1323	1325	1324
25°	1249	1241	1246	1266	1285	1282	1280	1288	1287
27.5°	1206	1197	1197	1221	1243	1237	1235	1247	1246
30°	1160	1150	1146	1173	1200	1191	1187	1203	1202
32.5°	1113	1101	1093	1124	1155	1143	1138	1156	1157
35°	1063	1049	1039	1070	1106	1093	1086	1107	1108
37.5°	1012	995	984	1016	1058	1042	1033	1054	1056
40°	959	939	928	964	1010	991	978	999	1004
42.5°	903	880	870	910	964	940	922	941	948
45°	846	819	811	860	924	891	863	881	889
47.5°	789	760	753	815	889	846	807	821	829
50°	730	699	697	776	858	806	751	758	767
52.5°	670	637	642	738	826	767	694	695	704
55°	611	576	590	699	782	725	638	631	639
57.5°	550	517	543	649	725	671	586	567	575
60°	488	458	498	590	654	609	533	504	510
62.5°	423	397	451	514	557	531	480	441	440
65°	361	339	395	428	472	443	419	373	366
67.5°	299	284	332	353	383	364	352	306	294
70°	240	232	263	279	289	284	277	244	230
72.5°	190	186	206	203	194	205	211	190	168
75°	147	144	156	144	143	144	157	140	131
77.5°	119	115	116	115	115	115	115	111	105
80°	93	89	89	89	89	89	88	87	81
82.5°	68	64	64	65	65	64	64	62	57
85°	44	39	40	41	41	41	40	39	34
87.5°	21	17	17	18	19	18	18	18	14
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)