

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: 190P103

Luminaire Tested: **2PGX-2U6T8S34I-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 190P103
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2PGX-2U6T8S34I-PAF
Description: 2 X 2 Recessed Convertible Body Troffer with a 4" deep
12 cell semi-specular low iridescent precision cell
parabolic louver.
Light Source: TWO-FB31T8/TL741 - 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: 2966.4 lumens
Efficiency: 57.0%
Efficacy: 53.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.25
Luminous Opening: Rectangular (W 1.73' x L: 1.76' x H: 0')
CIE Type: Direct

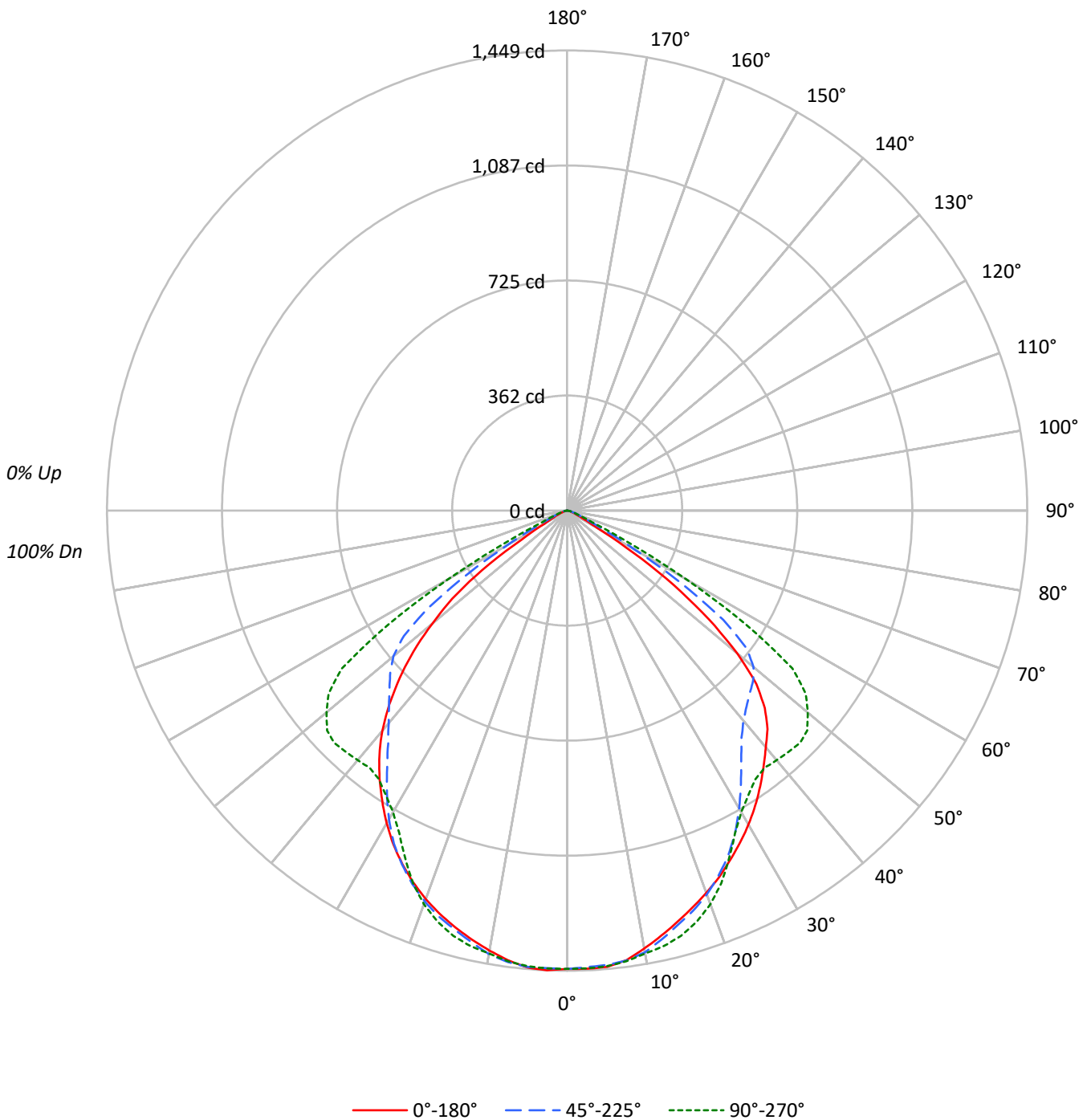
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	5102	5102	5102
5°	5118	5111	5125
10°	5027	5084	5052
15°	4909	5074	4975
20°	4820	4963	4899
25°	4736	4709	4791
30°	4663	4475	4642
35°	4575	4459	4446
40°	4491	4736	4182
45°	4400	5180	3725
50°	3845	5440	3047
55°	2540	5339	2022
60°	771	3069	580
65°	335	720	293
70°	207	341	186
75°	150	205	123
80°	102	122	81
85°	41	41	41



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	136.6	4.6	2.6	0°	1443	1443	1443	1443	1443	
10°-20°	384.8	13.0	7.4	5°	1442	1436	1440	1442	1444	136
20°-30°	557.6	18.8	10.7	15°	1341	1350	1386	1366	1359	378
30°-40°	633.0	21.3	12.2	25°	1214	1199	1207	1230	1228	560
40°-50°	659.7	22.2	12.7	35°	1060	955	1033	988	1030	663
50°-60°	484.3	16.3	9.3	45°	880	813	1036	791	745	667
60°-70°	91.1	3.1	1.8	55°	412	600	866	532	328	359
70°-80°	16.7	0.6	0.3	65°	40	67	86	62	35	47
80°-90°	2.5	0.1	0.0	75°	11	17	15	16	9	12
90°-100°	0.0	0.0	0.0	85°	1	2	1	2	1	2
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	0
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°	1079.0	36.4	20.8	165°	0	0	0	0	0	0
0°-40°	1712.1	57.7	32.9	175°	0	0	0	0	0	0
0°-60°	2856.0	96.3	54.9	180°	0	0	0	0	0	0
0°-90°	2966.4	100.0	57.0							
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°	2966.4	100.0	57.0							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1443	1443	1443	1443	1443	1443	1443	1443	1443
2.5°	1444	1441	1439	1441	1443	1444	1442	1446	1449
5°	1442	1438	1436	1439	1440	1444	1442	1443	1444
7.5°	1428	1425	1429	1431	1431	1436	1434	1431	1428
10°	1400	1400	1412	1416	1416	1421	1418	1413	1407
12.5°	1371	1370	1382	1403	1405	1407	1392	1391	1384
15°	1341	1340	1350	1385	1386	1388	1366	1366	1359
17.5°	1311	1310	1321	1353	1357	1358	1341	1338	1332
20°	1281	1276	1286	1314	1319	1322	1310	1306	1302
22.5°	1250	1241	1245	1259	1269	1275	1273	1271	1267
25°	1214	1206	1199	1197	1207	1219	1230	1232	1228
27.5°	1179	1168	1145	1124	1145	1153	1182	1190	1185
30°	1142	1128	1083	1059	1096	1091	1122	1142	1137
32.5°	1102	1084	1018	1008	1062	1042	1056	1089	1084
35°	1060	1034	955	970	1033	1003	988	1031	1030
37.5°	1016	983	902	941	1021	973	926	968	971
40°	973	931	863	931	1026	958	874	899	906
42.5°	934	883	836	929	1031	952	830	822	829
45°	880	825	813	924	1036	939	791	739	745
47.5°	808	752	794	913	1025	919	755	649	657
50°	699	662	766	877	989	876	714	558	554
52.5°	562	553	711	809	947	807	648	465	456
55°	412	431	600	721	866	714	532	371	328
57.5°	247	290	426	575	668	559	369	249	168
60°	109	158	249	362	434	350	214	134	82
62.5°	60	79	120	187	211	181	106	72	51
65°	40	50	67	88	86	86	62	43	35
67.5°	28	35	45	51	51	51	42	33	25
70°	20	25	32	34	33	35	30	24	18
72.5°	15	18	23	24	22	24	22	18	13
75°	11	13	17	17	15	17	16	13	9
77.5°	7	10	12	11	10	12	11	9	7
80°	5	6	8	8	6	8	8	6	4
82.5°	3	4	5	4	3	5	5	4	2
85°	1	2	2	2	1	2	2	2	1
87.5°	0	0	0	0	0	0	0	0	0
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)