

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: 190P102

Luminaire Tested: **2PGX-2U6T8S23I-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 190P102
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2PGX-2U6T8S23I-PAF
Description: 2 X 2 Recessed Convertible Body Troffer with a 4" deep
6 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

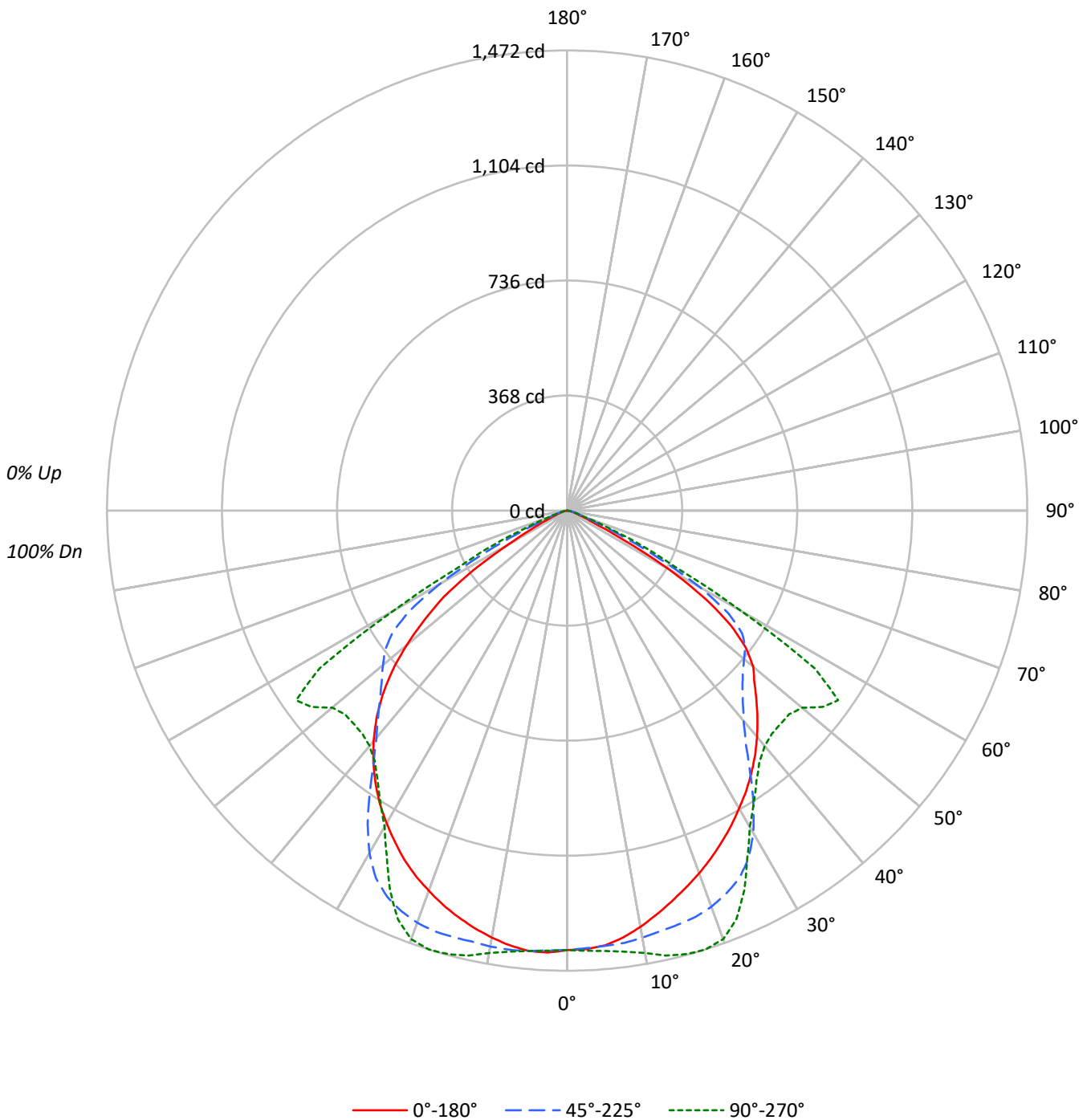
Lumens per Lamp: 2600 (2 lamps)
Luminaire Lumens: 3321.1 lumens
Efficiency: 63.9%
Efficacy: 60.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.29
Luminous Opening: Rectangular (W 1.73' x L: 1.76' x H: 0')
CIE Type: Direct

Input Watts (W): 55.1
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



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	50	30	10	50	30	10	0														
RCR																																						
0	76	76	76	76	74	74	74	74	71	71	71	68	68	68	65	65	65	64																				
1	71	68	66	64	69	67	65	63	64	63	61	62	61	59	60	59	58	56																				
2	65	61	57	54	64	60	57	54	58	55	52	56	53	51	54	52	50	49																				
3	60	54	50	46	59	53	49	46	52	48	45	50	47	44	48	46	44	42																				
4	56	49	44	40	54	48	43	40	46	42	39	45	41	39	44	41	38	37																				
5	51	44	39	35	50	43	38	35	42	38	34	41	37	34	39	36	34	32																				
6	47	40	34	31	46	39	34	30	38	33	30	37	33	30	36	32	30	28																				
7	44	36	31	27	43	36	31	27	35	30	27	34	30	27	33	29	27	25																				
8	41	33	28	24	40	33	28	24	32	27	24	31	27	24	30	27	24	23																				
9	38	30	25	22	38	30	25	22	29	25	22	29	25	22	28	24	22	20																				
10	36	28	23	20	35	28	23	20	27	23	20	26	23	20	26	22	20	19																				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	4971	4971	4971
5°	4955	5019	5019
10°	4854	5159	4980
15°	4737	5377	4927
20°	4647	5490	4869
25°	4565	5228	4807
30°	4491	4769	4716
35°	4433	4558	4610
40°	4362	4537	4445
45°	4280	4825	4175
50°	4274	5396	3686
55°	3933	6522	2971
60°	2652	4568	1527
65°	786	2175	586
70°	414	651	320
75°	273	328	205
80°	183	204	143
85°	81	122	81



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	134.2	4.0	2.6	0°	1406	1406	1406	1406	1406	
10°-20°	393.9	11.9	7.6	5°	1396	1398	1414	1414	1414	132
20°-30°	594.8	17.9	11.4	15°	1294	1371	1469	1412	1346	365
30°-40°	666.7	20.1	12.8	25°	1170	1300	1340	1363	1232	539
40°-50°	675.3	20.3	13.0	35°	1027	1020	1056	1100	1068	642
50°-60°	620.7	18.7	11.9	45°	856	793	965	846	835	662
60°-70°	203.4	6.1	3.9	55°	638	683	1058	683	482	548
70°-80°	27.9	0.8	0.5	65°	94	194	260	173	70	138
80°-90°	4.2	0.1	0.1	75°	20	27	24	24	15	23
90°-100°	0.0	0.0	0.0	85°	2	4	3	3	2	3
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°	1122.9	33.8	21.6	165°	0	0	0	0	0	0
0°-40°	1789.6	53.9	34.4	175°	0	0	0	0	0	0
0°-60°	3085.6	92.9	59.3	180°	0	0	0	0	0	0
0°-90°	3321.1	100.0	63.9							
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°	3321.1	100.0	63.9							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1406	1406	1406	1406	1406	1406	1406	1406	1406
2.5°	1404	1401	1401	1405	1409	1410	1408	1412	1415
5°	1396	1393	1398	1408	1414	1417	1414	1413	1414
7.5°	1377	1380	1395	1413	1423	1425	1417	1409	1403
10°	1352	1359	1387	1420	1437	1436	1416	1397	1387
12.5°	1323	1334	1378	1434	1458	1453	1412	1382	1368
15°	1294	1310	1371	1443	1469	1466	1412	1365	1346
17.5°	1264	1287	1363	1439	1472	1466	1411	1348	1322
20°	1235	1262	1349	1427	1459	1458	1403	1328	1294
22.5°	1203	1240	1327	1389	1415	1427	1387	1305	1265
25°	1170	1216	1300	1325	1340	1370	1363	1281	1232
27.5°	1136	1190	1256	1234	1249	1287	1325	1257	1194
30°	1100	1160	1191	1139	1168	1196	1265	1226	1155
32.5°	1065	1127	1109	1057	1111	1118	1188	1188	1114
35°	1027	1086	1020	997	1056	1058	1100	1143	1068
37.5°	987	1043	938	942	1011	1004	1016	1091	1018
40°	945	994	878	900	983	962	949	1032	963
42.5°	901	937	832	872	969	934	895	962	903
45°	856	872	793	857	965	916	846	882	835
47.5°	812	804	762	851	964	906	804	792	759
50°	777	740	739	846	981	898	769	699	670
52.5°	721	688	718	848	1031	898	734	601	576
55°	638	616	683	848	1058	887	683	505	482
57.5°	524	520	612	792	939	806	599	411	357
60°	375	389	489	620	646	607	473	294	216
62.5°	202	240	334	391	385	375	315	179	126
65°	94	121	194	228	260	222	173	103	70
67.5°	59	71	99	132	131	125	87	60	45
70°	40	47	57	68	63	64	51	40	31
72.5°	28	33	38	42	38	39	34	28	22
75°	20	23	27	28	24	26	24	20	15
77.5°	14	16	18	19	16	17	16	14	10
80°	9	11	12	12	10	11	11	9	7
82.5°	5	6	8	8	6	7	7	5	4
85°	2	3	4	4	3	3	3	2	2
87.5°	1	1	1	1	0	1	1	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)