

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: 197P100

Luminaire Tested: **2P2GX-2U6T8S33I-PAF**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 197P100
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2P2GX-2U6T8S33I-PAF
Description: 2 X 2 Recessed Troffer with a 2" deep 9 cell
semi-specular low iridescent parabolic louver
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

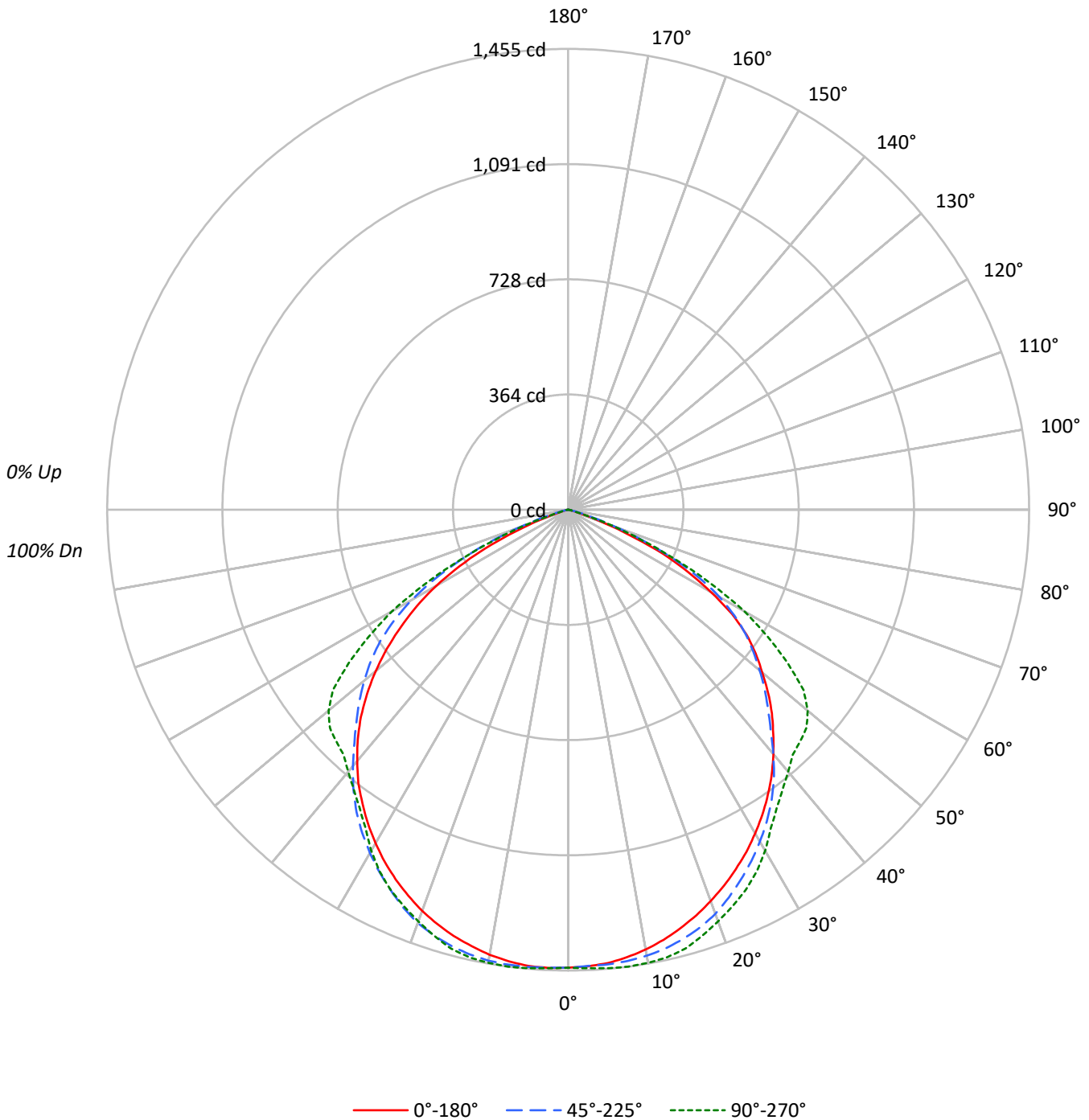
Summary

Lumens per Lamp: 2600 (2 lamps)
Luminaire Lumens: 3617.9 lumens
Efficiency: 69.6%
Efficacy: 65.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.74' 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				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	83	83	83	83	81	81	81	81	77	77	77		74	74	74		71	71	71	70
1	77	74	72	70	75	73	70	68	70	68	66		67	66	64		65	63	62	61
2	71	66	62	58	69	65	61	58	62	59	56		60	57	55		58	56	54	52
3	65	58	53	49	63	57	53	49	55	51	48		53	50	47		52	49	46	45
4	60	52	46	42	58	51	46	42	49	45	41		48	44	41		46	43	40	39
5	55	47	41	37	54	46	40	36	44	40	36		43	39	36		42	38	35	34
6	51	42	36	32	50	41	36	32	40	35	32		39	35	31		38	34	31	30
7	47	38	32	28	46	38	32	28	37	32	28		36	31	28		35	31	28	26
8	44	35	29	25	43	34	29	25	34	29	25		33	28	25		32	28	25	24
9	41	32	27	23	40	32	26	23	31	26	23		30	26	22		29	25	22	21
10	38	30	24	21	38	29	24	21	29	24	21		28	24	20		27	23	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	5098	5098	5098
5°	5085	5142	5117
10°	5047	5201	5108
15°	4993	5234	5088
20°	4933	5188	5057
25°	4870	5154	5010
30°	4803	5060	4950
35°	4730	4941	4872
40°	4639	4970	4768
45°	4532	5160	4612
50°	4382	5413	4349
55°	4222	5200	3958
60°	3673	4526	3391
65°	2761	3161	2402
70°	1154	1525	1010
75°	191	150	150
80°	122	102	102
85°	81	81	81



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	137.8	3.8	2.6	0°	1446	1446	1446	1446	1446	
10°-20°	398.0	11.0	7.7	5°	1437	1441	1453	1449	1446	136
20°-30°	600.7	16.6	11.6	15°	1368	1403	1434	1426	1394	386
30°-40°	712.1	19.7	13.7	25°	1252	1289	1325	1326	1288	577
40°-50°	733.6	20.3	14.1	35°	1099	1119	1148	1165	1132	687
50°-60°	645.8	17.8	12.4	45°	909	892	1035	945	925	700
60°-70°	343.2	9.5	6.6	55°	687	683	846	724	644	605
70°-80°	44.0	1.2	0.8	65°	331	366	379	373	288	315
80°-90°	2.7	0.1	0.1	75°	14	37	11	37	11	35
90°-100°	0.0	0.0	0.0	85°	2	2	2	2	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°	1136.5	31.4	21.9	165°	0	0	0	0	0	0
0°-40°	1848.6	51.1	35.6	175°	0	0	0	0	0	0
0°-60°	3228.0	89.2	62.1	180°	0	0	0	0	0	0
0°-90°	3617.9	100.0	69.6							
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°	3617.9	100.0	69.6							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1446	1446	1446	1446	1446	1446	1446	1446	1446
2.5°	1443	1443	1442	1446	1449	1448	1447	1449	1448
5°	1437	1438	1441	1448	1453	1452	1449	1448	1446
7.5°	1425	1429	1437	1448	1455	1454	1449	1444	1438
10°	1410	1416	1430	1444	1453	1453	1446	1436	1427
12.5°	1391	1400	1419	1436	1447	1446	1438	1425	1411
15°	1368	1382	1403	1423	1434	1436	1426	1411	1394
17.5°	1343	1358	1383	1400	1410	1415	1409	1393	1372
20°	1315	1333	1358	1371	1383	1387	1389	1372	1348
22.5°	1285	1305	1325	1339	1355	1358	1360	1347	1319
25°	1252	1275	1289	1306	1325	1326	1326	1319	1288
27.5°	1218	1241	1251	1269	1288	1291	1290	1286	1254
30°	1180	1204	1210	1226	1243	1251	1251	1250	1216
32.5°	1141	1165	1167	1173	1191	1201	1210	1210	1176
35°	1099	1121	1119	1117	1148	1149	1165	1166	1132
37.5°	1055	1074	1067	1069	1112	1104	1113	1117	1088
40°	1008	1023	1007	1028	1080	1064	1057	1064	1036
42.5°	958	969	946	989	1049	1026	999	1009	983
45°	909	913	892	952	1035	989	945	950	925
47.5°	856	856	841	926	1020	962	894	886	861
50°	799	794	789	897	987	930	840	818	793
52.5°	746	729	737	855	936	881	785	744	721
55°	687	666	683	792	846	815	724	665	644
57.5°	613	591	622	700	747	719	653	582	566
60°	521	499	552	600	642	617	570	497	481
62.5°	426	401	468	488	513	505	477	406	386
65°	331	307	366	366	379	378	373	307	288
67.5°	208	212	259	250	254	258	269	209	181
70°	112	116	157	152	148	155	165	117	98
72.5°	51	58	83	70	54	71	85	58	35
75°	14	20	37	16	11	17	37	16	11
77.5°	9	10	12	9	8	9	12	9	7
80°	6	7	6	6	5	6	6	6	5
82.5°	4	4	4	4	4	4	4	4	3
85°	2	2	2	2	2	2	2	2	2
87.5°	1	1	1	1	1	1	1	1	1
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)