

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: 190P107

Luminaire Tested: **2PGX-2U6T8S34MI-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 190P107
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2PGX-2U6T8S34MI-PAF
Description: 2 X 2 Recessed Convertible Body Luminaire with a 4" deep
12 cell 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

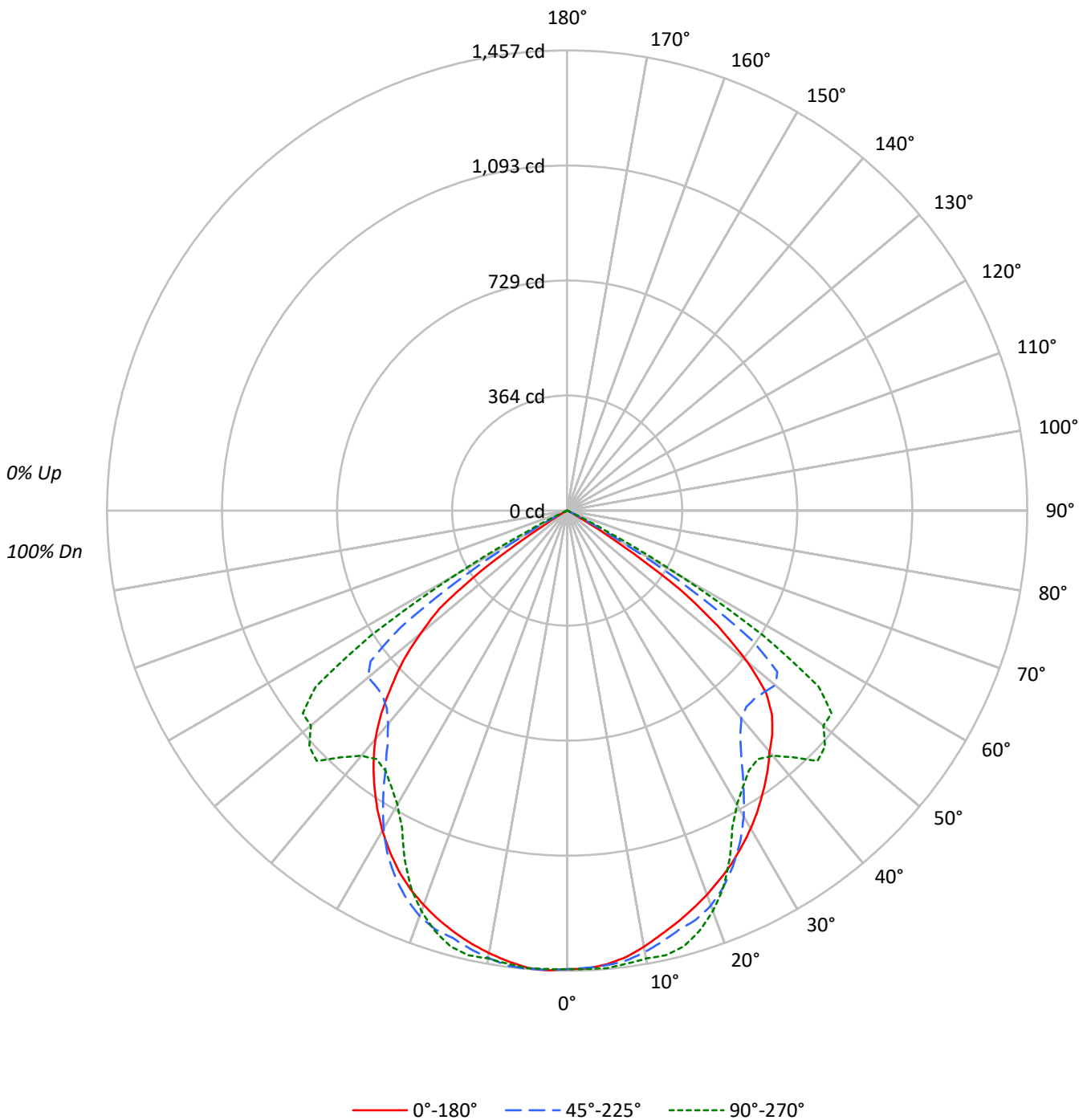
Lumens per Lamp: 2600 (2 lamps)
Luminaire Lumens: 3021.3 lumens
Efficiency: 58.1%
Efficacy: 55.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.12 / 1.25
Luminous Opening: Rectangular (W 1.73' x L: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 54.4
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	69	69	69	69	68	68	68	68	65	65	65	62	62	62	59	59	59	58
1	65	63	61	59	63	62	60	58	59	58	57	57	56	55	55	54	53	52
2	60	57	53	51	59	55	53	50	53	51	49	52	50	48	50	48	47	46
3	56	51	47	44	54	50	46	43	48	45	43	47	44	42	45	43	41	40
4	52	46	41	38	50	45	41	38	44	40	37	42	39	37	41	39	36	35
5	48	41	37	33	47	41	36	33	40	36	33	38	35	33	37	35	32	31
6	44	37	33	30	43	37	33	29	36	32	29	35	32	29	34	31	29	28
7	41	34	30	26	40	34	29	26	33	29	26	32	29	26	31	28	26	25
8	38	31	27	24	38	31	27	24	30	26	23	29	26	23	29	26	23	22
9	36	29	24	21	35	28	24	21	28	24	21	27	24	21	27	23	21	20
10	34	27	22	20	33	26	22	19	26	22	19	25	22	19	25	22	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	5165	5165	5165
5°	5149	5192	5188
10°	5064	5201	5140
15°	4968	5259	5089
20°	4898	5106	5031
25°	4839	4776	4945
30°	4773	4415	4806
35°	4703	4360	4620
40°	4629	4704	4388
45°	4613	5639	3954
50°	4117	5860	3353
55°	2710	6028	2040
60°	398	2931	142
65°	67	160	59
70°	42	73	31
75°	27	41	27
80°	20	41	20
85°	41	41	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	137.7	4.6	2.6	0°	1452	1452	1452	1452	1452	
10°-20°	392.8	13.0	7.6	5°	1442	1445	1454	1456	1453	136
20°-30°	570.9	18.9	11.0	15°	1349	1373	1428	1401	1382	381
30°-40°	641.0	21.2	12.3	25°	1233	1242	1217	1284	1260	568
40°-50°	697.9	23.1	13.4	35°	1083	962	1004	1003	1064	678
50°-60°	531.3	17.6	10.2	45°	917	841	1121	827	786	695
60°-70°	46.1	1.5	0.9	55°	437	712	972	642	329	363
70°-80°	2.9	0.1	0.1	65°	8	13	19	11	7	14
80°-90°	0.7	0.0	0.0	75°	2	3	3	3	2	2
90°-100°	0.0	0.0	0.0	85°	1	1	1	1	0	1
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°	1101.4	36.5	21.2	165°	0	0	0	0	0	0
0°-40°	1742.4	57.7	33.5	175°	0	0	0	0	0	0
0°-60°	2971.6	98.4	57.1	180°	0	0	0	0	0	0
0°-90°	3021.3	100.0	58.1							
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°	3021.3	100.0	58.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1452	1452	1452	1452	1452	1452	1452	1452	1452
2.5°	1451	1445	1449	1454	1453	1457	1455	1452	1457
5°	1442	1437	1445	1453	1454	1458	1456	1451	1453
7.5°	1426	1423	1437	1445	1447	1453	1453	1442	1439
10°	1402	1402	1419	1436	1440	1446	1438	1428	1423
12.5°	1375	1378	1397	1427	1442	1439	1421	1411	1404
15°	1349	1352	1373	1418	1428	1432	1401	1389	1382
17.5°	1322	1324	1358	1387	1395	1404	1390	1364	1357
20°	1294	1298	1331	1340	1349	1363	1366	1337	1329
22.5°	1264	1270	1291	1281	1292	1310	1330	1308	1297
25°	1233	1241	1242	1210	1217	1245	1284	1275	1260
27.5°	1198	1210	1185	1121	1132	1163	1230	1239	1217
30°	1162	1176	1118	1039	1075	1085	1163	1199	1170
32.5°	1124	1133	1040	983	1036	1030	1085	1148	1119
35°	1083	1082	962	942	1004	988	1003	1090	1064
37.5°	1042	1028	899	913	992	960	934	1027	1007
40°	997	975	858	914	1013	959	882	958	945
42.5°	961	922	841	941	1059	984	846	878	871
45°	917	864	841	982	1121	1017	827	785	786
47.5°	855	792	849	1016	1107	1040	822	685	704
50°	744	700	860	984	1059	994	822	599	606
52.5°	602	590	839	918	1055	930	785	511	509
55°	437	459	712	842	972	855	642	404	329
57.5°	209	275	460	638	735	634	392	226	92
60°	56	100	205	355	412	332	164	68	20
62.5°	13	21	46	117	137	110	36	16	10
65°	8	9	13	22	19	21	11	8	7
67.5°	5	6	7	9	10	9	7	5	4
70°	4	4	5	6	7	6	5	4	3
72.5°	3	3	4	4	4	4	3	3	2
75°	2	2	3	3	3	3	3	2	2
77.5°	1	2	2	2	2	2	2	2	1
80°	1	1	2	2	2	1	1	1	1
82.5°	1	1	1	1	1	1	1	1	1
85°	1	1	1	1	1	0	1	1	0
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)