

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: 197P107

Luminaire Tested: **2P2GX-2U1-5/8S44I-PAF**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 197P107
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2P2GX-2U1-5/8S44I-PAF
Description: 2 X 2 Recessed Convertible Body Luminaire with a 2" deep
16 cell semi-specular low iridescent parabolic louver.
Light Source: Two - FBO31/35K - 2750 Lumens ea. - 31 Watts ea.
Ballast/Driver: Advance REL-2P32-RH-TP Electronic - L.O.B.F. = 85.2

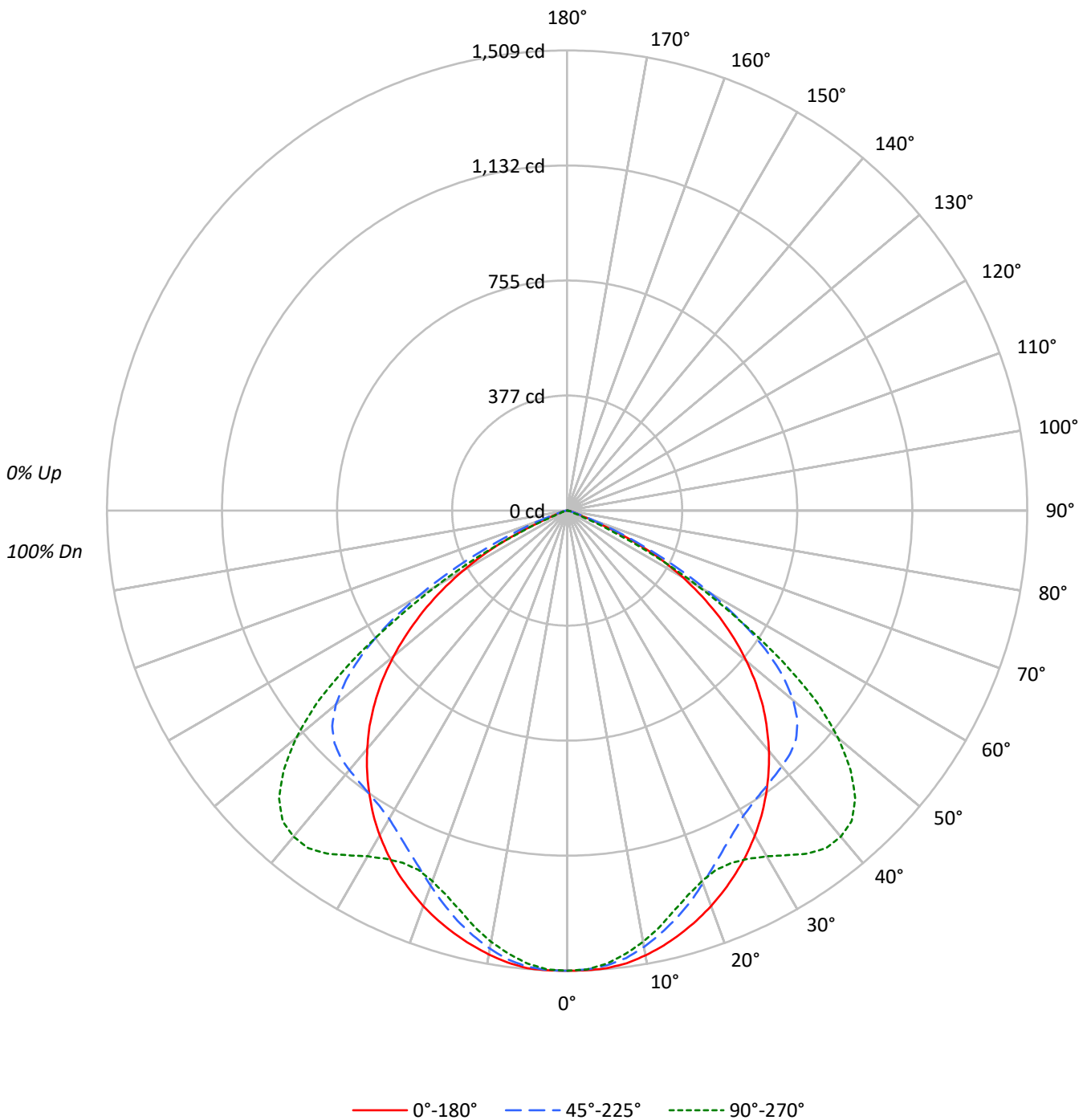
Summary

Lumens per Lamp: 2750 (2 lamps)
Luminaire Lumens: 3620.7 lumens
Efficiency: 65.8%
Efficacy: 67.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.4 / 1.43
Luminous Opening: Rectangular (W 1.74' x L: 1.76' x H: 0')
CIE Type: Direct

Input Watts (W): 53.9
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	78	78	78	78	77	77	77	77	73	73	73		70	70	70		67	67	67	66
1	73	70	68	66	71	69	67	65	66	65	63		64	62	61		61	60	59	58
2	67	63	59	56	66	61	58	55	59	56	54		57	55	53		55	53	51	50
3	62	56	51	47	60	55	50	47	53	49	46		51	48	45		49	47	45	43
4	57	50	45	41	55	49	44	40	47	43	40		46	42	39		44	41	39	37
5	52	45	39	35	51	44	39	35	43	38	35		41	37	34		40	37	34	33
6	48	40	35	31	47	40	34	31	39	34	30		37	33	30		36	33	30	29
7	45	37	31	27	44	36	31	27	35	30	27		34	30	27		33	29	27	25
8	42	33	28	24	41	33	28	24	32	27	24		31	27	24		30	27	24	23
9	39	31	25	22	38	30	25	22	29	25	22		29	25	22		28	24	21	20
10	37	28	23	20	36	28	23	20	27	23	20		27	22	20		26	22	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	5288	5288	5288
5°	5298	5245	5298
10°	5270	5110	5259
15°	5213	4923	5206
20°	5146	4822	5146
25°	5069	4930	5073
30°	4981	5297	4977
35°	4864	5874	4843
40°	4712	6386	4666
45°	4500	6621	4421
50°	4182	6324	4051
55°	3727	5267	3519
60°	3077	3469	2754
65°	2032	1435	1584
70°	523	246	451
75°	325	190	284
80°	242	141	202
85°	161	80	121



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	141.7	3.9	2.6	0°	1509	1509	1509	1509	1509	
10°-20°	392.4	10.8	7.1	5°	1506	1497	1491	1501	1506	143
20°-30°	583.3	16.1	10.6	15°	1437	1384	1357	1392	1435	405
30°-40°	743.7	20.5	13.5	25°	1311	1220	1275	1230	1312	604
40°-50°	823.4	22.7	15.0	35°	1137	1120	1373	1133	1132	710
50°-60°	660.7	18.2	12.0	45°	908	1061	1336	1079	892	697
60°-70°	246.1	6.8	4.5	55°	610	795	862	819	576	542
70°-80°	25.3	0.7	0.5	65°	245	273	173	291	191	235
80°-90°	4.2	0.1	0.1	75°	24	20	14	21	21	28
90°-100°	0.0	0.0	0.0	85°	4	4	2	4	3	5
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°	1117.3	30.9	20.3	165°	0	0	0	0	0	0
0°-40°	1861.0	51.4	33.8	175°	0	0	0	0	0	0
0°-60°	3345.1	92.4	60.8	180°	0	0	0	0	0	0
0°-90°	3620.7	100.0	65.8							
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°	3620.7	100.0	65.8							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1509	1509	1509	1509	1509	1509	1509	1509	1509
2.5°	1509	1504	1506	1506	1506	1506	1508	1509	1509
5°	1506	1498	1497	1493	1491	1494	1501	1505	1506
7.5°	1497	1486	1480	1470	1466	1472	1485	1495	1495
10°	1481	1468	1453	1440	1436	1443	1459	1476	1478
12.5°	1461	1443	1420	1406	1399	1410	1427	1451	1458
15°	1437	1414	1384	1365	1357	1369	1392	1423	1435
17.5°	1410	1381	1345	1324	1321	1329	1351	1391	1409
20°	1380	1345	1301	1289	1293	1296	1309	1355	1380
22.5°	1347	1307	1259	1262	1275	1268	1267	1318	1347
25°	1311	1266	1220	1246	1275	1253	1230	1278	1312
27.5°	1273	1221	1186	1243	1287	1250	1196	1234	1272
30°	1231	1174	1156	1250	1309	1257	1167	1188	1230
32.5°	1186	1124	1135	1263	1340	1272	1147	1139	1183
35°	1137	1072	1120	1281	1373	1291	1133	1088	1132
37.5°	1085	1020	1107	1297	1395	1309	1121	1035	1078
40°	1030	967	1095	1299	1396	1313	1111	983	1020
42.5°	970	912	1082	1282	1381	1298	1099	929	959
45°	908	856	1061	1243	1336	1263	1079	875	892
47.5°	840	801	1025	1180	1261	1200	1045	820	821
50°	767	744	968	1089	1160	1111	990	763	743
52.5°	691	685	892	977	1033	999	915	702	661
55°	610	620	795	840	862	860	819	635	576
57.5°	526	546	677	671	672	691	702	560	487
60°	439	460	544	500	495	518	570	473	393
62.5°	348	360	407	349	334	363	429	374	298
65°	245	252	273	207	173	216	291	267	191
67.5°	120	138	161	94	59	98	175	157	86
70°	51	60	82	33	24	35	89	70	44
72.5°	35	34	36	21	18	22	39	37	31
75°	24	24	20	16	14	16	21	25	21
77.5°	17	16	14	12	10	12	15	17	15
80°	12	11	10	8	7	8	10	12	10
82.5°	7	7	6	5	4	5	7	7	6
85°	4	4	4	3	2	3	4	4	3
87.5°	2	1	1	1	1	1	2	2	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)