

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: 197P108

Luminaire Tested: **2P2GX-2U1-5/8S66I-PAF**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 197P108
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2P2GX-2U1-5/8S66I-PAF
Description: 2 X 2 Recessed Convertible Body Luminaire with a 2" deep
36 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

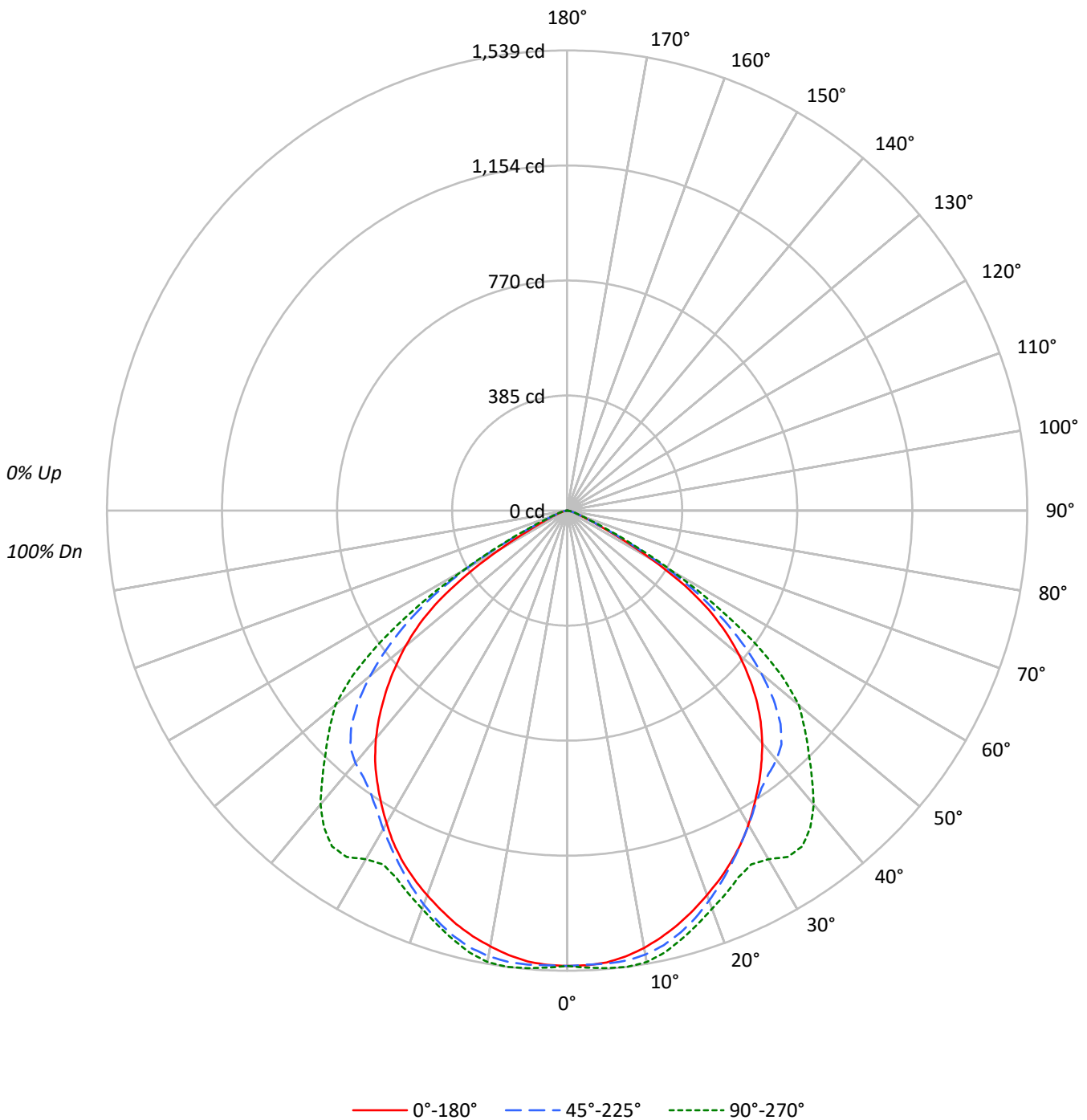
Summary

Lumens per Lamp: 2750 (2 lamps)
Luminaire Lumens: 3425.7 lumens
Efficiency: 62.3%
Efficacy: 64.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.39 / 1.38
Luminous Opening: Rectangular (W 1.74' x L: 1.76' x H: 0')
CIE Type: Direct

Input Watts (W): 53.4
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

TEST NUMBER: 197P108
CATALOG NUMBER: 2P2GX-2U1-5/8S66I-PAF

Luminous Intensity Polar Plot





TEST NUMBER: 197P108

CATALOG NUMBER: 2P2GX-2U1-5/8S66I-PAF

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	74	74	74	74	72	72	72	72	69	69	69	66	66	66	64	64	64	62
1	69	67	65	63	68	66	64	62	63	61	60	61	59	58	58	57	57	55
2	64	60	56	54	63	59	56	53	57	54	52	55	53	51	53	51	49	48
3	59	54	49	46	58	53	49	46	51	48	45	49	46	44	48	45	43	42
4	55	48	43	40	53	47	43	39	46	42	39	44	41	38	43	40	38	37
5	51	43	38	35	49	43	38	35	41	37	34	40	37	34	39	36	34	32
6	47	39	34	31	46	39	34	30	38	33	30	37	33	30	36	32	30	29
7	43	36	31	27	42	35	31	27	34	30	27	33	30	27	33	29	27	25
8	41	33	28	24	40	32	28	24	32	27	24	31	27	24	30	27	24	23
9	38	30	25	22	37	30	25	22	29	25	22	28	25	22	28	24	22	21
10	36	28	23	20	35	27	23	20	27	23	20	26	22	20	26	22	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	5337	5337	5337
5°	5336	5403	5326
10°	5284	5455	5267
15°	5199	5380	5195
20°	5102	5284	5105
25°	5015	5235	5019
30°	4908	5447	4888
35°	4779	5865	4740
40°	4643	5869	4552
45°	4436	5660	4247
50°	4094	5512	3849
55°	3525	4613	3177
60°	2313	2853	1815
65°	904	1169	713
70°	441	502	389
75°	298	298	257
80°	222	182	182
85°	161	121	121



TEST NUMBER: 197P108

CATALOG NUMBER: 2P2GX-2U1-5/8S66I-PAF

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	145.0	4.2	2.6	0°	1523	1523	1523	1523	1523	
10°-20°	412.0	12.0	7.5	5°	1517	1521	1536	1524	1514	144
20°-30°	610.1	17.8	11.1	15°	1433	1462	1483	1472	1432	404
30°-40°	748.3	21.8	13.6	25°	1297	1302	1354	1317	1298	597
40°-50°	765.9	22.4	13.9	35°	1117	1133	1371	1148	1108	698
50°-60°	563.4	16.4	10.2	45°	895	1009	1142	1021	857	687
60°-70°	152.7	4.5	2.8	55°	577	641	755	653	520	502
70°-80°	24.5	0.7	0.4	65°	109	117	141	125	86	137
80°-90°	3.9	0.1	0.1	75°	22	21	22	21	19	25
90°-100°	0.0	0.0	0.0	85°	4	3	3	3	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°	1167.0	34.1	21.2	165°	0	0	0	0	0	0
0°-40°	1915.3	55.9	34.8	175°	0	0	0	0	0	0
0°-60°	3244.6	94.7	59.0	180°	0	0	0	0	0	0
0°-90°	3425.7	100.0	62.3							
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°	3425.7	100.0	62.3							



TEST NUMBER: 197P108

CATALOG NUMBER: 2P2GX-2U1-5/8S66I-PAF

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1523	1523	1523	1523	1523	1523	1523	1523	1523
2.5°	1522	1518	1520	1525	1530	1526	1522	1523	1521
5°	1517	1512	1521	1530	1536	1530	1524	1520	1514
7.5°	1504	1502	1518	1532	1539	1533	1522	1511	1499
10°	1485	1487	1508	1526	1533	1528	1513	1496	1480
12.5°	1461	1467	1489	1506	1513	1511	1497	1477	1458
15°	1433	1443	1462	1475	1483	1480	1472	1456	1432
17.5°	1402	1415	1428	1440	1451	1446	1440	1430	1401
20°	1368	1384	1388	1401	1417	1408	1402	1400	1369
22.5°	1334	1350	1346	1363	1387	1371	1361	1366	1335
25°	1297	1312	1302	1326	1354	1335	1317	1329	1298
27.5°	1257	1270	1257	1291	1334	1300	1273	1288	1256
30°	1213	1223	1214	1272	1346	1281	1230	1241	1208
32.5°	1165	1171	1170	1279	1373	1288	1186	1190	1158
35°	1117	1117	1133	1286	1371	1296	1148	1134	1108
37.5°	1067	1061	1108	1264	1336	1274	1121	1077	1055
40°	1015	1006	1089	1215	1283	1226	1102	1018	995
42.5°	958	949	1061	1149	1212	1161	1073	957	928
45°	895	890	1009	1069	1142	1081	1021	894	857
47.5°	825	827	936	988	1077	1001	948	828	783
50°	751	756	849	909	1011	923	860	757	706
52.5°	670	677	751	822	903	838	761	682	622
55°	577	585	641	697	755	715	653	594	520
57.5°	467	468	520	543	582	560	531	482	395
60°	330	328	379	381	407	396	392	343	259
62.5°	199	198	228	239	251	249	240	212	149
65°	109	111	117	137	141	143	125	121	86
67.5°	65	64	65	78	79	80	68	70	55
70°	43	41	43	47	49	48	44	44	38
72.5°	31	29	29	32	33	32	30	30	27
75°	22	21	21	21	22	22	21	21	19
77.5°	16	14	14	14	15	15	15	15	13
80°	11	10	9	9	9	9	10	10	9
82.5°	7	6	6	5	5	5	6	6	5
85°	4	3	3	3	3	3	3	3	3
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



TEST NUMBER: 197P108

CATALOG NUMBER: 2P2GX-2U1-5/8S66I-PAF

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)