

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: 190P106

Luminaire Tested: **2PGX-2BX40S44MI-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 190P106
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2PGX-2BX40S44MI-PAF
Description: 2 X 2 Recessed Convertible Body Luminaire with a 4" deep
16 cell specular low iridescent parabolic louver.
Light Source: Two - F40BX/SPX35/RS - 3150 Lumens ea. - 40 Watts ea.
Ballast/Driver: Magnetek B240I120HP Electronic - L.O.B.F. = 91.8

Summary

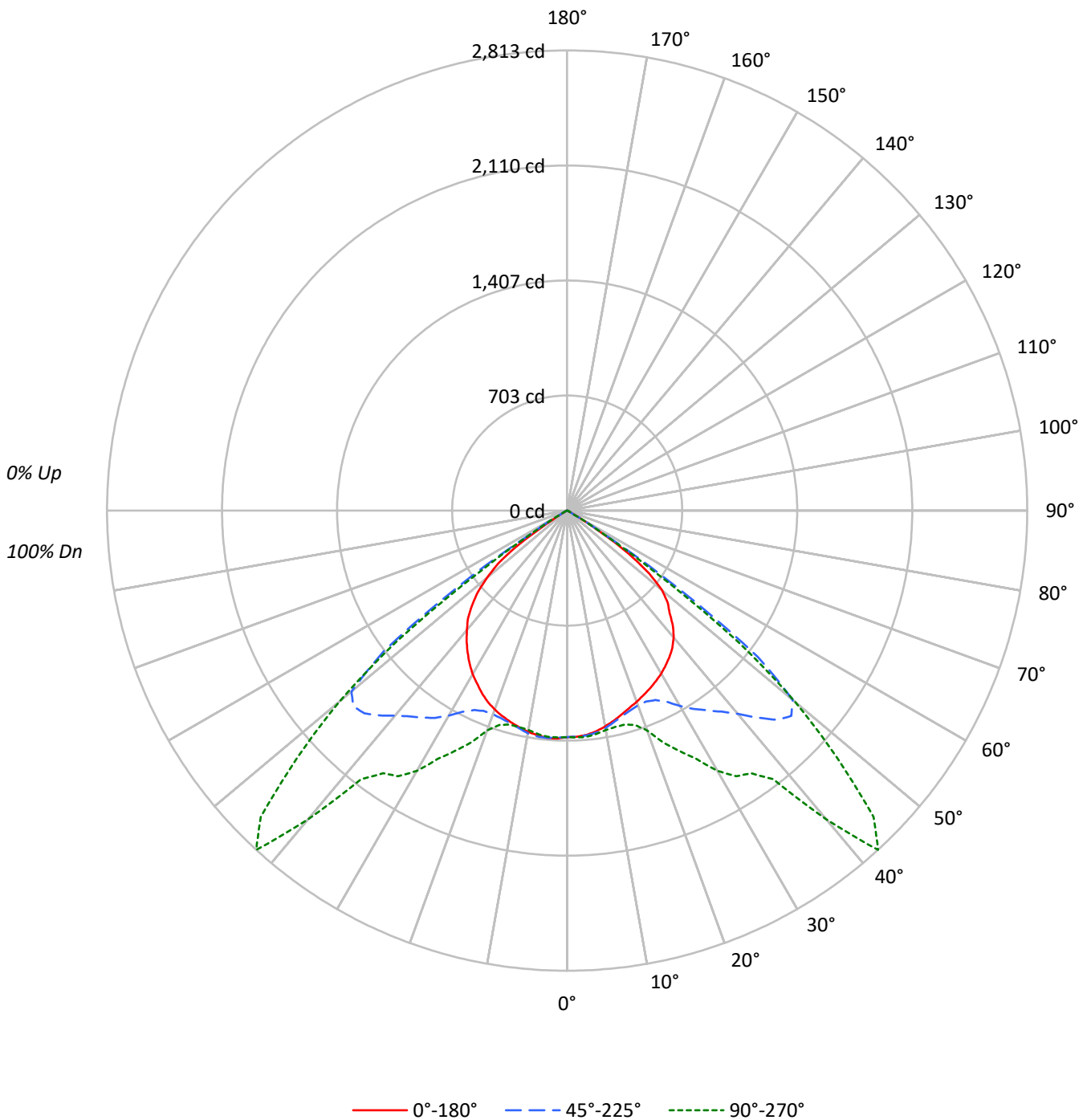
Lumens per Lamp: 3150 (2 lamps)
Luminaire Lumens: 4085.3 lumens
Efficiency: 64.8%
Efficacy: 58.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 2.18 / 1.81
Luminous Opening: Rectangular (W 1.74' x L: 1.76' x H: 0')
CIE Type: Direct

Input Watts (W): 70.3
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	50	30	10	50	30	10	50	30	10	0																			
RCR																																														
0	77	77	77	77	75	75	75	75	72	72	72	69	69	69	66	66	66	65											65																	
1	72	70	68	66	71	69	67	65	66	64	63	63	62	61	61	60	59	58											58																	
2	67	63	59	56	65	61	58	55	59	57	54	57	55	53	55	54	52	51											51																	
3	62	56	52	48	60	55	51	48	53	50	47	52	49	46	50	47	45	44											44																	
4	57	50	45	41	56	49	45	41	48	44	41	46	43	40	45	42	40	38											38																	
5	52	45	40	36	51	44	39	36	43	39	35	42	38	35	41	37	35	33											33																	
6	48	40	35	31	47	40	35	31	39	34	31	38	34	31	37	33	30	29											29																	
7	45	37	31	28	44	36	31	27	35	31	27	34	30	27	33	30	27	26											26																	
8	41	33	28	24	41	33	28	24	32	27	24	31	27	24	30	27	24	23											23																	
9	39	30	25	22	38	30	25	22	29	25	22	28	24	21	28	24	21	20											20																	
10	36	28	23	19	35	27	23	19	27	22	19	26	22	19	26	22	19	18											18																	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	4868	4868	4868
5°	4855	4897	4922
10°	4779	4861	4900
15°	4694	4927	4869
20°	4649	5349	4840
25°	4650	6287	4778
30°	4667	7456	4688
35°	4681	8410	4548
40°	4648	11296	4373
45°	4399	13163	4091
50°	4139	9963	3494
55°	2800	3977	2194
60°	429	344	169
65°	83	116	75
70°	51	72	41
75°	41	41	41
80°	20	20	20
85°	40	0	40



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	131.5	3.2	2.1	0°	1385	1385	1385	1385	1385	
10°-20°	378.1	9.3	6.0	5°	1376	1379	1388	1395	1395	130
20°-30°	638.0	15.6	10.1	15°	1290	1300	1354	1345	1338	364
30°-40°	954.7	23.4	15.2	25°	1199	1278	1621	1345	1232	553
40°-50°	1310.6	32.1	20.8	35°	1091	1490	1960	1545	1060	682
50°-60°	647.9	15.9	10.3	45°	885	1809	2648	1753	823	687
60°-70°	20.6	0.5	0.3	55°	457	827	649	829	358	377
70°-80°	3.3	0.1	0.1	65°	10	14	14	13	9	16
80°-90°	0.4	0.0	0.0	75°	3	3	3	3	3	3
90°-100°	0.0	0.0	0.0	85°	1	0	0	0	1	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°	1147.7	28.1	18.2	165°	0	0	0	0	0	0
0°-40°	2102.4	51.5	33.4	175°	0	0	0	0	0	0
0°-60°	4060.9	99.4	64.5	180°	0	0	0	0	0	0
0°-90°	4085.3	100.0	64.8							
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°	4085.3	100.0	64.8							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1385	1385	1385	1385	1385	1385	1385	1385	1385
2.5°	1384	1380	1382	1385	1388	1389	1389	1391	1395
5°	1376	1373	1379	1384	1388	1393	1395	1394	1395
7.5°	1361	1360	1369	1373	1377	1386	1393	1391	1386
10°	1339	1341	1350	1355	1362	1373	1382	1381	1373
12.5°	1316	1318	1324	1343	1355	1365	1363	1368	1357
15°	1290	1293	1300	1336	1354	1364	1345	1349	1338
17.5°	1265	1268	1281	1337	1373	1370	1333	1327	1317
20°	1243	1243	1266	1360	1430	1399	1325	1302	1294
22.5°	1221	1220	1264	1419	1533	1467	1326	1275	1266
25°	1199	1199	1278	1505	1621	1562	1345	1246	1232
27.5°	1175	1179	1317	1572	1711	1641	1386	1217	1192
30°	1150	1160	1379	1653	1837	1736	1447	1186	1155
32.5°	1122	1144	1438	1747	1925	1843	1502	1159	1110
35°	1091	1133	1490	1793	1960	1909	1545	1136	1060
37.5°	1057	1130	1549	1843	2068	1979	1585	1111	1009
40°	1013	1129	1622	2006	2462	2160	1636	1094	953
42.5°	957	1132	1715	2293	2813	2458	1698	1079	898
45°	885	1139	1809	2409	2648	2589	1753	1075	823
47.5°	834	1155	1858	2167	2239	2339	1772	1066	742
50°	757	1165	1800	1707	1822	1846	1721	1049	639
52.5°	632	1052	1470	1231	1315	1335	1415	966	531
55°	457	757	827	741	649	804	829	719	358
57.5°	210	397	264	291	226	327	253	372	106
60°	61	123	52	78	49	90	49	103	24
62.5°	16	27	24	24	23	26	23	24	14
65°	10	13	14	14	14	14	13	13	9
67.5°	7	8	9	9	10	9	9	8	6
70°	5	5	6	7	7	7	6	6	4
72.5°	4	4	4	4	5	5	4	4	3
75°	3	3	3	3	3	3	3	3	3
77.5°	2	2	2	2	2	2	2	2	2
80°	1	1	1	1	1	1	1	1	1
82.5°	1	1	1	0	0	1	1	1	1
85°	1	0	0	0	0	0	0	0	1
87.5°	1	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)