

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: 190P105

Luminaire Tested: **2PGX-2BX40S34I-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 190P105
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2PGX-2BX40S34I-PAF
Description: 2 X 2 Recessed Convertible Body Luminaire with a 4" deep
12 cell semi-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

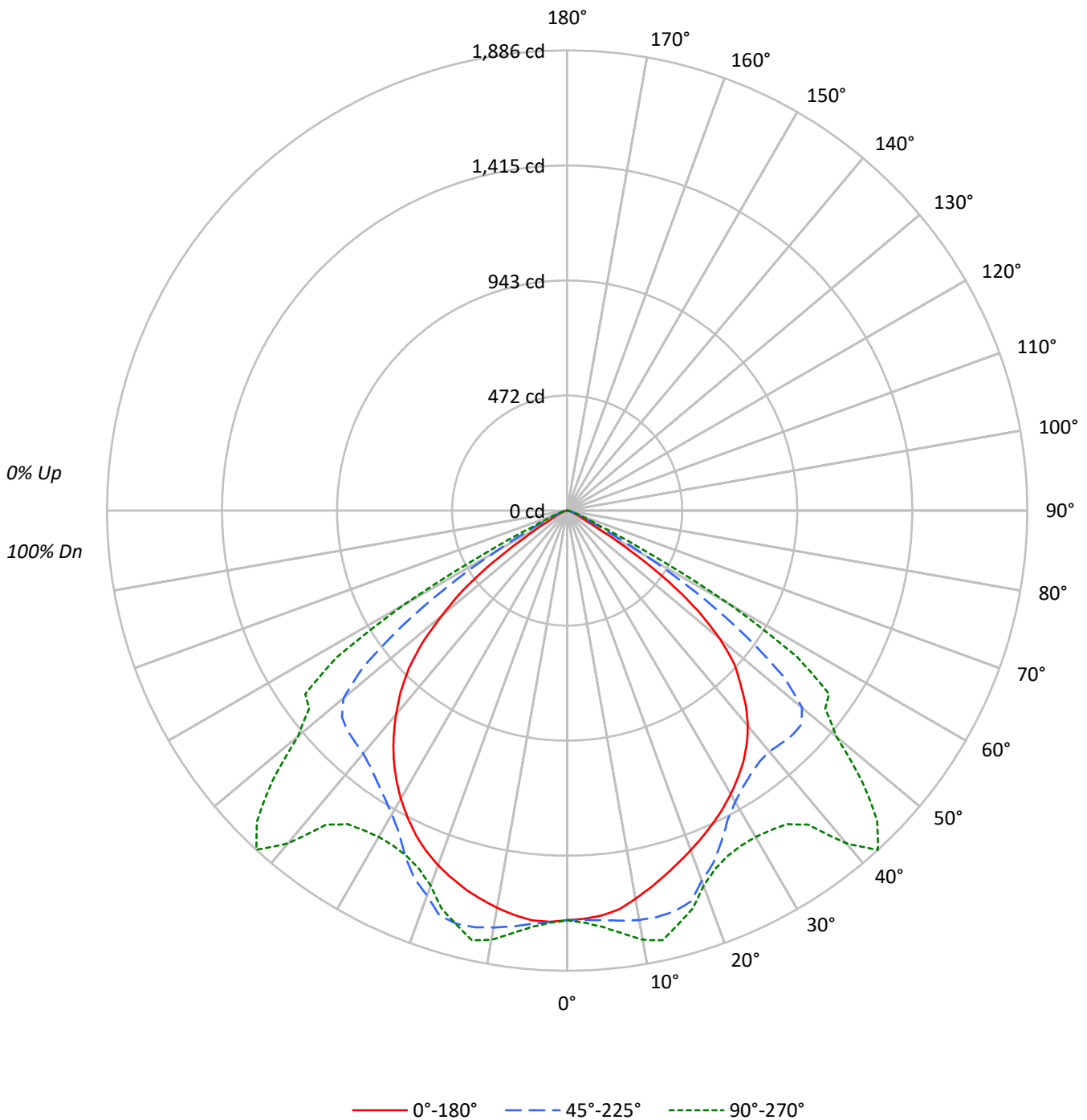
Lumens per Lamp: 3150 (2 lamps)
Luminaire Lumens: 4126.8 lumens
Efficiency: 65.5%
Efficacy: 58.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.46 / 1.51
Luminous Opening: Rectangular (W 1.74' x L: 1.76' x H: 0')
CIE Type: Direct

Input Watts (W): 70.8
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	76	76	76	76	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	62	58	56	60	57	54		58	55	53		56	54	52	51
3	62	56	52	48	61	55	51	48	53	50	47		52	49	46		50	48	45	44
4	57	50	45	42	56	50	45	41	48	44	41		47	43	40		45	42	40	38
5	53	45	40	36	52	45	40	36	43	39	36		42	38	35		41	38	35	34
6	49	41	36	32	48	40	35	32	39	35	31		38	34	31		37	34	31	30
7	45	37	32	28	44	37	32	28	36	31	28		35	31	28		34	30	28	26
8	42	34	29	25	41	34	29	25	33	28	25		32	28	25		31	27	25	24
9	39	31	26	23	39	31	26	23	30	26	22		29	25	22		29	25	22	21
10	37	29	24	21	36	28	24	20	28	23	20		27	23	20		27	23	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	5901	5901	5901
5°	5875	6048	5945
10°	5764	6374	5900
15°	5633	6390	5848
20°	5540	6116	5786
25°	5484	6050	5689
30°	5443	6267	5532
35°	5398	6732	5321
40°	5286	8167	5006
45°	4991	8932	4568
50°	4467	7874	3669
55°	3113	8028	2323
60°	1005	5420	710
65°	457	1198	374
70°	288	555	247
75°	217	326	177
80°	162	202	121
85°	121	121	81



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	162.3	3.9	2.6	0°	1679	1679	1679	1679	1679	
10°-20°	476.3	11.5	7.6	5°	1665	1685	1714	1701	1685	157
20°-30°	705.1	17.1	11.2	15°	1548	1700	1756	1753	1607	437
30°-40°	873.5	21.2	13.9	25°	1414	1496	1560	1566	1467	652
40°-50°	1006.8	24.4	16.0	35°	1258	1315	1569	1357	1240	785
50°-60°	728.8	17.7	11.6	45°	1004	1303	1797	1274	919	771
60°-70°	145.4	3.5	2.3	55°	508	888	1310	827	379	437
70°-80°	24.4	0.6	0.4	65°	55	98	144	93	45	64
80°-90°	4.2	0.1	0.1	75°	16	23	24	22	13	17
90°-100°	0.0	0.0	0.0	85°	3	4	3	4	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°	1343.8	32.6	21.3	165°	0	0	0	0	0	0
0°-40°	2217.3	53.7	35.2	175°	0	0	0	0	0	0
0°-60°	3952.8	95.8	62.7	180°	0	0	0	0	0	0
0°-90°	4126.8	100.0	65.5							
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°	4126.8	100.0	65.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1679	1679	1679	1679	1679	1679	1679	1679	1679
2.5°	1674	1673	1679	1685	1691	1689	1688	1686	1687
5°	1665	1668	1685	1701	1714	1710	1701	1691	1685
7.5°	1647	1655	1695	1729	1748	1744	1719	1687	1671
10°	1615	1634	1704	1761	1786	1780	1735	1678	1653
12.5°	1582	1612	1706	1781	1804	1804	1749	1669	1631
15°	1548	1592	1700	1744	1756	1770	1753	1659	1607
17.5°	1514	1574	1681	1701	1710	1731	1740	1648	1578
20°	1481	1555	1614	1631	1635	1663	1679	1634	1547
22.5°	1448	1533	1564	1553	1588	1588	1633	1614	1510
25°	1414	1508	1496	1511	1560	1550	1566	1585	1467
27.5°	1379	1473	1426	1478	1547	1523	1491	1543	1417
30°	1341	1430	1378	1457	1544	1508	1436	1488	1363
32.5°	1301	1367	1342	1445	1553	1501	1394	1410	1304
35°	1258	1306	1315	1443	1569	1507	1357	1333	1240
37.5°	1209	1243	1296	1456	1622	1525	1324	1249	1168
40°	1152	1173	1289	1509	1780	1586	1300	1158	1091
42.5°	1084	1103	1296	1605	1886	1687	1287	1067	1010
45°	1004	1037	1303	1623	1797	1710	1274	984	919
47.5°	928	975	1300	1503	1638	1586	1252	907	807
50°	817	905	1257	1332	1440	1397	1197	820	671
52.5°	677	797	1118	1166	1333	1211	1053	710	544
55°	508	637	888	1049	1310	1084	827	572	379
57.5°	308	429	632	883	1118	930	583	391	202
60°	143	226	380	590	771	615	355	212	101
62.5°	81	112	180	306	366	322	172	108	65
65°	55	71	98	139	144	145	93	68	45
67.5°	39	49	65	79	84	80	62	47	33
70°	28	36	45	52	54	52	43	34	24
72.5°	21	26	32	36	36	36	31	25	18
75°	16	19	23	25	24	25	22	18	13
77.5°	11	14	16	17	16	17	16	13	9
80°	8	9	11	11	10	12	11	9	6
82.5°	5	6	7	7	6	7	7	6	4
85°	3	3	4	3	3	4	4	3	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)