

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: 187P100

Luminaire Tested: **2EP3GX-2U15/8W33P-NSBC-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 187P100
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-2U15/8W33P-NSBC-PAF
Description: 2 X 2 Recessed Convertible Body Troffer with a 3"
deep 9 cell powder painted white parabolic louver.
Light Source: Two-FBO31T8/35K - 2750 Lumens ea. - 31 Watts. ea.
Ballast/Driver: Triad B232I120RH Electronic

Summary

Lumens per Lamp: 2750 (2 lamps)
Luminaire Lumens: 3661.4 lumens
Efficiency: 66.6%
Efficacy: 67.3 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.18 / 1.23
Luminous Opening: Rectangular (W 1.73' x L: 1.75' x H: 0')
CIE Type: Direct

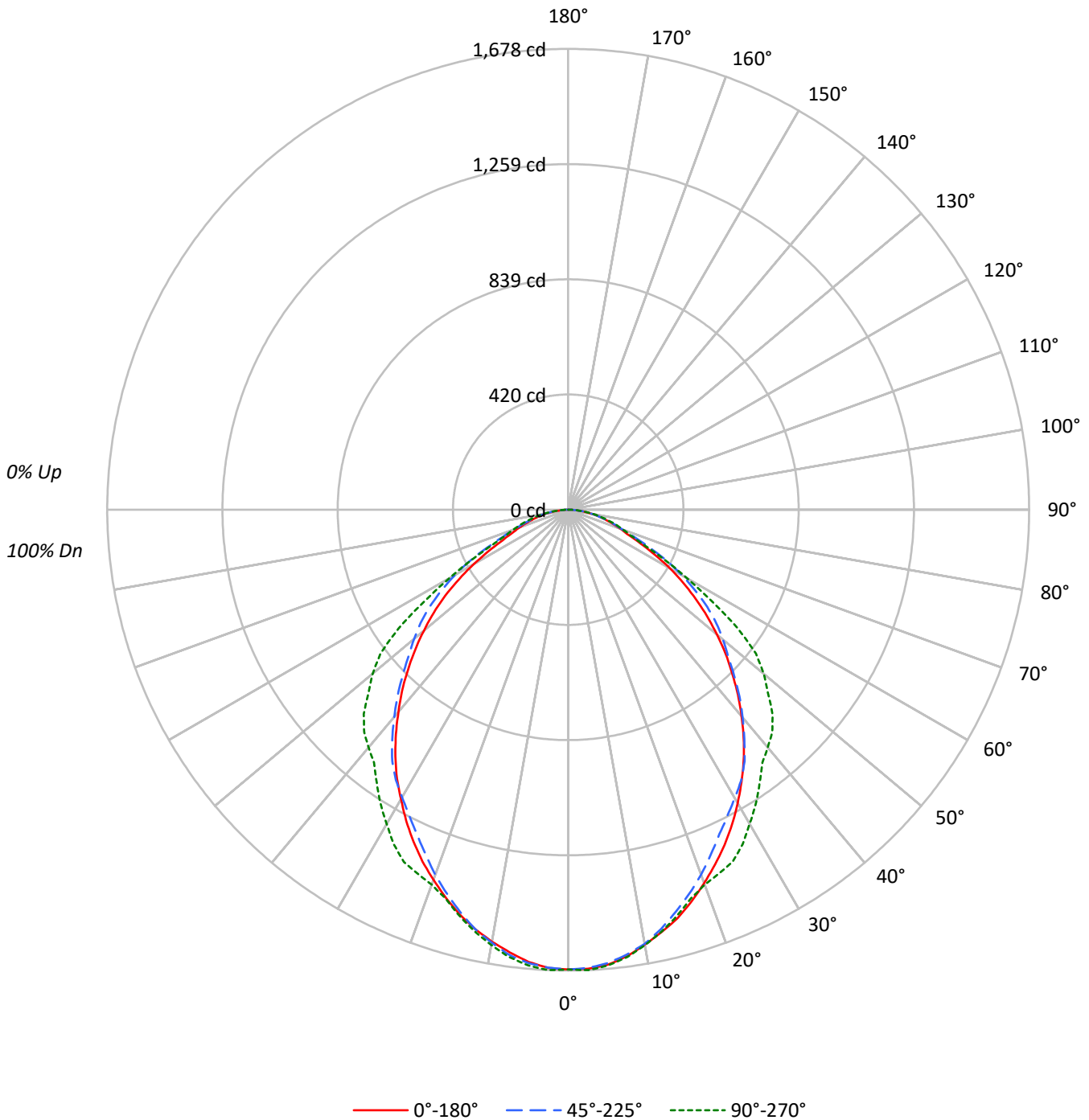
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	79	79	79	79	77	77	77	77	74	74	74	71	71	71	68	68	68	67
1	73	70	68	66	71	69	67	64	66	64	62	63	62	61	61	60	59	57
2	67	62	58	55	66	61	57	54	59	55	53	57	54	52	55	52	50	49
3	62	55	50	46	60	54	50	46	52	48	45	51	47	44	49	46	44	42
4	57	49	44	40	55	49	43	40	47	43	39	45	42	39	44	41	38	37
5	53	44	39	35	51	44	38	35	42	38	34	41	37	34	40	36	33	32
6	49	40	35	31	47	40	34	30	38	34	30	37	33	30	36	33	30	28
7	45	37	31	27	44	36	31	27	35	30	27	34	30	27	33	30	27	25
8	42	34	28	24	41	33	28	24	32	28	24	32	27	24	31	27	24	23
9	40	31	26	22	39	31	26	22	30	25	22	29	25	22	28	25	22	21
10	37	29	24	20	36	28	23	20	28	23	20	27	23	20	26	23	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	5954	5954	5954
5°	5938	5949	5902
10°	5808	5815	5768
15°	5667	5638	5620
20°	5477	5500	5428
25°	5287	5554	5232
30°	5068	5426	4999
35°	4837	5276	4764
40°	4560	5247	4462
45°	4251	5292	4150
50°	3907	5141	3796
55°	3516	4676	3392
60°	3045	3557	2817
65°	2441	2559	2214
70°	2090	2215	1945
75°	1938	2075	1787
80°	1803	1926	1598
85°	1592	1714	1265



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	156.7	4.3	2.8	0°	1674	1674	1674	1674	1674	
10°-20°	428.9	11.7	7.8	5°	1663	1657	1666	1657	1653	157
20°-30°	617.8	16.9	11.2	15°	1539	1515	1531	1517	1526	433
30°-40°	705.2	19.3	12.8	25°	1347	1303	1415	1303	1333	619
40°-50°	687.8	18.8	12.5	35°	1114	1119	1215	1117	1097	695
50°-60°	558.5	15.3	10.2	45°	845	854	1052	851	825	651
60°-70°	311.2	8.5	5.7	55°	567	618	754	615	547	506
70°-80°	151.7	4.1	2.8	65°	290	327	304	322	263	294
80°-90°	43.6	1.2	0.8	75°	141	143	151	140	130	150
90°-100°	0.0	0.0	0.0	85°	39	39	42	37	31	42
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	2
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°	1203.4	32.9	21.9	165°	0	0	0	0	0	0
0°-40°	1908.6	52.1	34.7	175°	0	0	0	0	0	0
0°-60°	3154.9	86.2	57.4	180°	0	0	0	0	0	0
0°-90°	3661.4	100.0	66.6							
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°	3661.4	100.0	66.6							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1674	1674	1674	1674	1674	1674	1674	1674	1674
2.5°	1673	1670	1670	1673	1678	1673	1669	1671	1670
5°	1663	1657	1657	1661	1666	1662	1657	1656	1653
7.5°	1640	1635	1634	1640	1643	1640	1636	1635	1626
10°	1608	1604	1605	1607	1610	1606	1601	1605	1597
12.5°	1575	1568	1563	1566	1573	1566	1564	1571	1564
15°	1539	1528	1515	1524	1531	1524	1517	1531	1526
17.5°	1495	1483	1466	1473	1484	1473	1467	1487	1481
20°	1447	1430	1414	1429	1453	1425	1415	1436	1434
22.5°	1398	1377	1358	1396	1434	1393	1357	1383	1386
25°	1347	1319	1303	1369	1415	1365	1303	1326	1333
27.5°	1292	1260	1256	1339	1374	1335	1254	1265	1277
30°	1234	1199	1212	1285	1321	1281	1209	1204	1217
32.5°	1174	1137	1171	1227	1271	1224	1167	1143	1160
35°	1114	1071	1119	1169	1215	1166	1117	1078	1097
37.5°	1049	1005	1053	1107	1161	1104	1052	1009	1030
40°	982	939	987	1051	1130	1048	985	942	961
42.5°	914	874	923	1011	1099	1008	919	878	895
45°	845	811	854	968	1052	965	851	813	825
47.5°	777	752	789	911	985	911	787	750	756
50°	706	693	735	842	929	842	732	690	686
52.5°	637	627	680	778	861	779	677	626	617
55°	567	559	618	702	754	704	615	556	547
57.5°	497	490	548	600	619	600	546	486	472
60°	428	425	479	487	500	486	477	419	396
62.5°	355	359	407	392	398	390	403	351	327
65°	290	297	327	311	304	310	322	289	263
67.5°	233	240	260	246	246	244	256	232	219
70°	201	199	210	209	213	208	207	195	187
72.5°	170	168	173	178	182	176	170	165	158
75°	141	140	143	148	151	147	140	136	130
77.5°	114	112	115	119	122	118	113	109	103
80°	88	86	88	92	94	91	86	83	78
82.5°	62	61	63	66	67	64	61	58	54
85°	39	38	39	40	42	39	37	35	31
87.5°	18	16	17	17	17	16	15	14	12
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)