

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: 115P138

Luminaire Tested: **EP3GX-232S16M/I-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 115P138
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: EP3GX-232S16M/I-PAF
Description: 1 X 4 Recessed Troffer with a 6 cell
specular low iridescent parabolic louver.
Light Source: Two-F32T8/35K - 2850 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad-Utrad B232I120RH Electronic

Summary

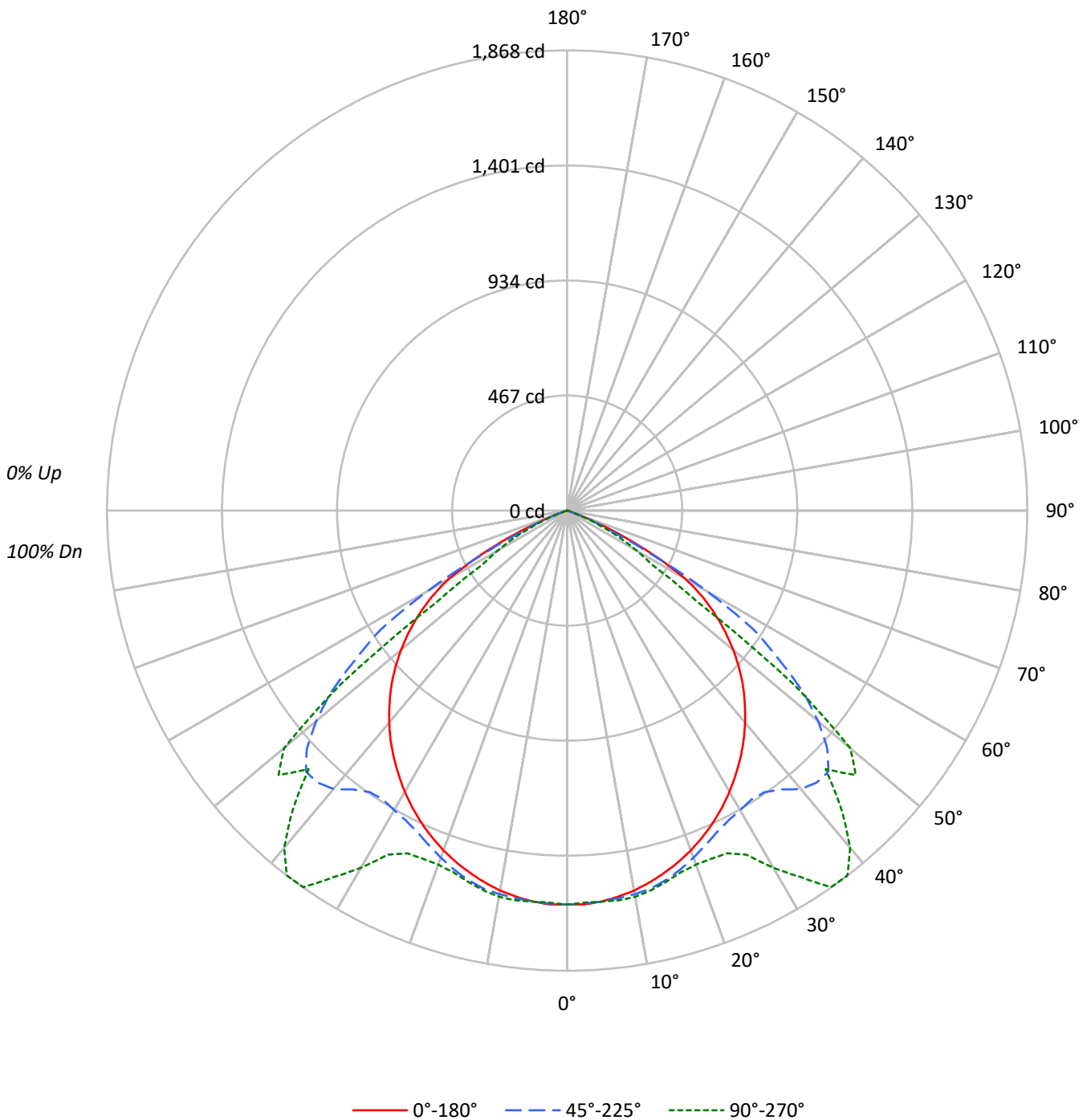
Lumens per Lamp: 2850 (2 lamps)
Luminaire Lumens: 4304.4 lumens
Efficiency: 75.5%
Efficacy: 69.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.68 / 1.61
Luminous Opening: Rectangular (W 0.73' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 61.6
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									
RC	80									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	0													
RCR																																					
0	90	90	90	90	88	88	88	88	84	84	84	80	80	80	77	77	77	76						76													
1	84	81	78	76	82	79	77	75	76	74	72	73	72	70	71	69	68	67						67													
2	77	72	68	64	75	71	67	63	68	65	62	66	63	60	63	61	59	58						58													
3	71	64	59	54	69	63	58	54	61	56	53	59	55	52	57	54	51	50						50													
4	65	57	51	47	64	56	51	46	54	49	46	53	48	45	51	47	44	43						43													
5	60	51	45	40	59	50	44	40	49	44	40	47	43	39	46	42	39	37						37													
6	55	46	40	35	54	45	39	35	44	39	35	43	38	34	42	37	34	33						33													
7	51	42	35	31	50	41	35	31	40	35	31	39	34	30	38	34	30	29						29													
8	48	38	32	28	47	37	32	27	36	31	27	36	31	27	35	30	27	26						26													
9	45	35	29	25	43	34	29	25	33	28	24	33	28	24	32	27	24	23						23													
10	42	32	26	22	41	32	26	22	31	26	22	30	25	22	29	25	22	21						21													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6294	6294	6294
5°	6295	6295	6295
10°	6259	6319	6363
15°	6207	6325	6353
20°	6149	6279	6405
25°	6076	6254	6667
30°	5991	6382	7609
35°	5891	6704	8967
40°	5776	7579	9183
45°	5622	8345	8261
50°	5389	8139	9186
55°	5030	7158	4427
60°	4377	5172	2590
65°	2487	1928	1518
70°	368	610	276
75°	91	106	76
80°	68	68	68
85°	45	45	45



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	151.7	3.5	2.7	0°	1599	1599	1599	1599	1599	
10°-20°	436.4	10.1	7.7	5°	1593	1591	1593	1597	1593	151
20°-30°	677.0	15.7	11.9	15°	1523	1529	1552	1562	1559	430
30°-40°	925.1	21.5	16.2	25°	1399	1422	1440	1504	1535	644
40°-50°	1042.4	24.2	18.3	35°	1226	1256	1395	1722	1866	767
50°-60°	802.3	18.6	14.1	45°	1010	1089	1499	1525	1484	777
60°-70°	256.5	6.0	4.5	55°	733	954	1043	899	645	650
70°-80°	11.7	0.3	0.2	65°	267	359	207	170	163	270
80°-90°	1.3	0.0	0.0	75°	6	7	7	6	5	10
90°-100°	0.0	0.0	0.0	85°	1	1	1	1	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°	1265.1	29.4	22.2	165°	0	0	0	0	0	0
0°-40°	2190.2	50.9	38.4	175°	0	0	0	0	0	0
0°-60°	4034.8	93.7	70.8	180°	0	0	0	0	0	0
0°-90°	4304.4	100.0	75.5							
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°	4304.4	100.0	75.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1599	1599	1599	1599	1599
2.5°	1600	1597	1597	1600	1593
5°	1593	1591	1593	1597	1593
7.5°	1581	1580	1587	1597	1596
10°	1566	1566	1581	1594	1592
12.5°	1546	1548	1571	1582	1578
15°	1523	1529	1552	1562	1559
17.5°	1497	1509	1528	1538	1539
20°	1468	1484	1499	1518	1529
22.5°	1435	1456	1469	1508	1530
25°	1399	1422	1440	1504	1535
27.5°	1360	1384	1418	1512	1574
30°	1318	1344	1404	1555	1674
32.5°	1273	1300	1391	1647	1764
35°	1226	1256	1395	1722	1866
37.5°	1177	1210	1427	1789	1868
40°	1124	1166	1475	1761	1787
42.5°	1068	1126	1498	1661	1650
45°	1010	1089	1499	1525	1484
47.5°	947	1057	1433	1406	1589
50°	880	1024	1329	1434	1500
52.5°	809	992	1205	1257	1159
55°	733	954	1043	899	645
57.5°	651	889	896	495	406
60°	556	772	657	331	329
62.5°	412	602	393	251	247
65°	267	359	207	170	163
67.5°	128	157	117	98	87
70°	32	44	53	38	24
72.5°	10	12	17	10	8
75°	6	7	7	6	5
77.5°	4	5	5	4	4
80°	3	3	3	3	3
82.5°	2	2	2	2	2
85°	1	1	1	1	1
87.5°	0	1	0	0	0
90°	0	0	0	0	0
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	0	0	0
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)