

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: 185P109

Luminaire Tested: **2EP3MX-232S26I**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 185P109
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3MX-232S26I
Description: 2 X 4 Surface Mount Fixture with 12 cell semi- specular
low iridescent parabolic louver.
Light Source: Two - FO32/735 - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 87.6

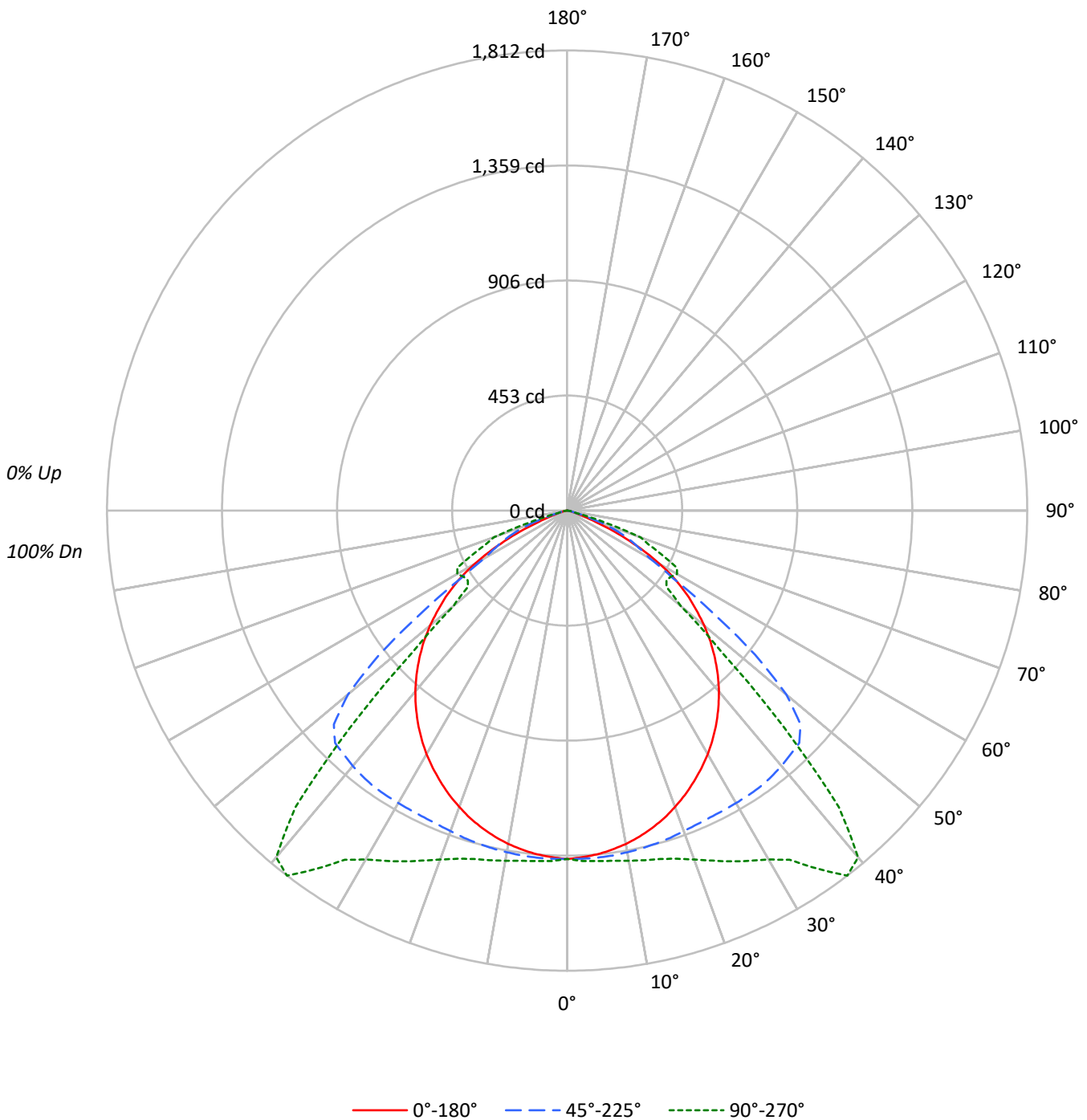
Summary

Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 3790.9 lumens
Efficiency: 67.7%
Efficacy: 63.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.78 / 1.59
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 59.8
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	81	81	81	81	79	79	79	79	75	75	75	72	72	72	69	69	69	68
1	75	72	70	68	73	71	69	67	68	66	65	65	64	63	63	62	61	59
2	69	64	60	57	67	63	59	56	61	58	55	58	56	54	56	54	52	51
3	63	57	52	48	62	56	51	48	54	50	47	52	49	46	51	48	45	44
4	58	51	45	41	57	50	45	41	48	44	40	47	43	40	45	42	39	38
5	54	46	40	36	52	45	40	36	44	39	35	42	38	35	41	37	35	33
6	50	41	35	31	48	41	35	31	39	35	31	38	34	31	37	33	30	29
7	46	37	32	28	45	37	31	28	36	31	27	35	30	27	34	30	27	26
8	43	34	29	25	42	34	28	25	33	28	25	32	28	24	31	27	24	23
9	40	31	26	22	39	31	26	22	30	25	22	29	25	22	29	25	22	21
10	37	29	24	20	37	28	23	20	28	23	20	27	23	20	26	23	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2277	2277	2277
5°	2264	2286	2308
10°	2247	2302	2360
15°	2224	2332	2440
20°	2194	2372	2583
25°	2159	2441	2791
30°	2122	2549	3040
35°	2075	2689	3489
40°	2015	2845	3861
45°	1932	3035	2836
50°	1818	2908	1511
55°	1664	2008	1383
60°	1401	1245	1660
65°	935	1068	1610
70°	393	738	1490
75°	167	224	244
80°	105	115	153
85°	57	76	95



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	130.7	3.4	2.3	0°	1372	1372	1372	1372	1372	
10°-20°	384.3	10.1	6.9	5°	1359	1364	1372	1377	1385	129
20°-30°	621.3	16.4	11.1	15°	1294	1313	1357	1398	1420	365
30°-40°	844.1	22.3	15.1	25°	1179	1225	1333	1462	1524	543
40°-50°	874.8	23.1	15.6	35°	1024	1111	1327	1555	1722	640
50°-60°	556.7	14.7	9.9	45°	823	979	1293	1374	1208	633
60°-70°	310.5	8.2	5.5	55°	575	769	694	446	478	509
70°-80°	63.3	1.7	1.1	65°	238	304	272	365	410	238
80°-90°	5.3	0.1	0.1	75°	26	29	35	40	38	35
90°-100°	0.0	0.0	0.0	85°	3	3	4	4	5	4
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°	1136.3	30.0	20.3	165°	0	0	0	0	0	0
0°-40°	1980.4	52.2	35.4	175°	0	0	0	0	0	0
0°-60°	3411.9	90.0	60.9	180°	0	0	0	0	0	0
0°-90°	3790.9	100.0	67.7							
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°	3790.9	100.0	67.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1372	1372	1372	1372	1372
2.5°	1366	1369	1372	1373	1381
5°	1359	1364	1372	1377	1385
7.5°	1347	1356	1370	1381	1391
10°	1333	1344	1366	1386	1400
12.5°	1315	1330	1362	1392	1410
15°	1294	1313	1357	1398	1420
17.5°	1270	1295	1351	1407	1437
20°	1242	1274	1343	1421	1462
22.5°	1212	1251	1337	1439	1492
25°	1179	1225	1333	1462	1524
27.5°	1144	1199	1331	1483	1555
30°	1107	1171	1330	1502	1586
32.5°	1067	1142	1329	1523	1630
35°	1024	1111	1327	1555	1722
37.5°	978	1080	1321	1622	1812
40°	930	1049	1313	1663	1782
42.5°	878	1015	1302	1590	1584
45°	823	979	1293	1374	1208
47.5°	766	940	1246	1028	827
50°	704	895	1126	709	585
52.5°	640	839	933	516	492
55°	575	769	694	446	478
57.5°	504	683	493	427	484
60°	422	575	375	417	500
62.5°	331	446	319	408	487
65°	238	304	272	365	410
67.5°	147	179	217	295	346
70°	81	95	152	232	307
72.5°	44	51	80	153	160
75°	26	29	35	40	38
77.5°	17	18	20	23	25
80°	11	12	12	14	16
82.5°	6	7	8	9	9
85°	3	3	4	4	5
87.5°	1	1	1	2	2
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)