

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: 188P142

Luminaire Tested: **2EP3GX-232S46MI-PAF**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 188P142  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2EP3GX-232S46MI-PAF  
Description: 2 X 4 Recessed Convertible Body Luminaire with a 3" deep  
24 cell specular low iridescent parabolic louver.  
Light Source: Two - FO32T8/35K - 2800 Lumens - 32 Watts ea.  
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 88.22

**Summary**

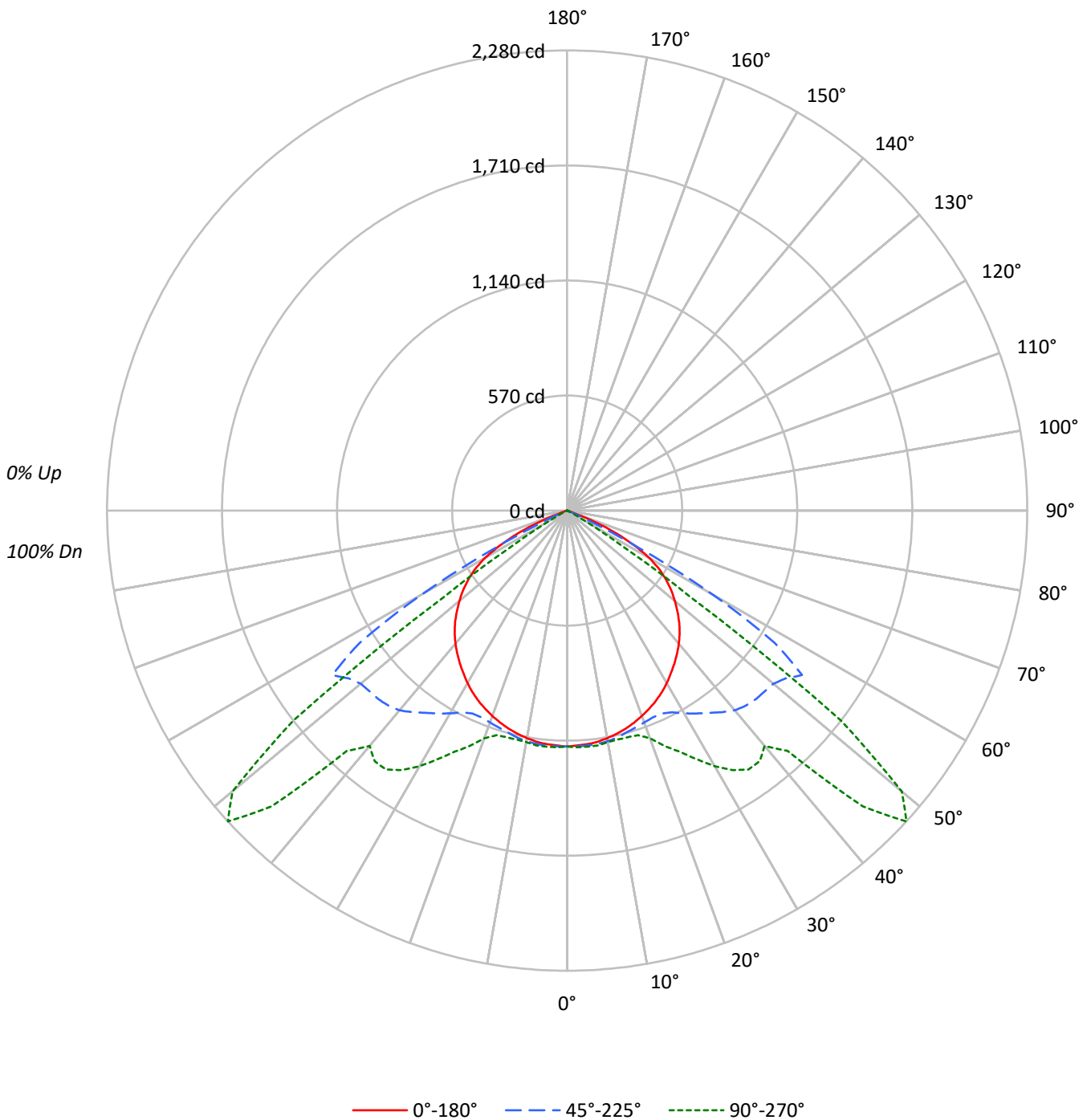
Lumens per Lamp: 2800 (2 lamps)  
Luminaire Lumens: 3888.5 lumens  
Efficiency: 69.4%  
Efficacy: 66.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 2.37 / 1.92  
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 58.4  
Input Voltage (V): NR  
Input 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	83	83	83	83	81	81	81	81	77	77	77	74	74	74	71	71	71	69
1	77	74	72	70	75	73	70	68	70	68	66	67	66	64	65	64	62	61
2	71	66	62	58	69	64	61	57	62	59	56	60	57	55	58	56	54	52
3	65	58	53	49	63	57	52	48	55	51	48	53	50	47	51	48	46	45
4	59	51	46	41	58	50	45	41	49	44	41	47	43	40	46	42	39	38
5	54	46	40	35	53	45	39	35	43	39	35	42	38	34	41	37	34	33
6	50	41	35	31	49	40	35	30	39	34	30	38	33	30	37	33	30	28
7	46	37	31	27	45	36	31	27	35	30	26	34	30	26	33	29	26	25
8	43	33	27	23	41	33	27	23	32	27	23	31	26	23	30	26	23	22
9	40	30	25	21	39	30	24	21	29	24	21	28	24	20	28	23	20	19
10	37	28	22	19	36	27	22	19	27	22	18	26	22	18	25	21	18	17

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1940	1940	1940
5°	1936	1946	1956
10°	1930	1955	1964
15°	1923	1954	1997
20°	1913	1973	2120
25°	1905	2033	2414
30°	1892	2223	2802
35°	1876	2478	3173
40°	1866	2800	3298
45°	1843	3103	4864
50°	1800	3445	5588
55°	1734	4112	2144
60°	1564	2779	305
65°	1096	420	47
70°	180	39	29
75°	32	26	19
80°	29	19	10
85°	19	19	0



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	111.1	2.9	2.0	0°	1169	1169	1169	1169	1169	
10°-20°	323.0	8.3	5.8	5°	1162	1163	1168	1170	1174	110
20°-30°	534.9	13.8	9.6	15°	1119	1128	1137	1153	1162	316
30°-40°	767.1	19.7	13.7	25°	1040	1051	1110	1260	1318	479
40°-50°	1031.8	26.5	18.4	35°	926	959	1223	1482	1566	580
50°-60°	908.5	23.4	16.2	45°	785	911	1322	1619	2072	604
60°-70°	205.5	5.3	3.7	55°	599	886	1421	1253	741	531
70°-80°	5.9	0.2	0.1	65°	279	425	107	14	12	262
80°-90°	0.8	0.0	0.0	75°	5	4	4	3	3	10
90°-100°	0.0	0.0	0.0	85°	1	1	1	0	0	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°	968.9	24.9	17.3	165°	0	0	0	0	0	0
0°-40°	1736.0	44.6	31.0	175°	0	0	0	0	0	0
0°-60°	3676.3	94.5	65.6	180°	0	0	0	0	0	0
0°-90°	3888.5	100.0	69.4							
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°	3888.5	100.0	69.4							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1169	1169	1169	1169	1169
2.5°	1165	1166	1169	1169	1174
5°	1162	1163	1168	1170	1174
7.5°	1155	1158	1166	1169	1173
10°	1145	1150	1160	1161	1165
12.5°	1133	1140	1151	1157	1162
15°	1119	1128	1137	1153	1162
17.5°	1102	1113	1127	1152	1167
20°	1083	1096	1117	1165	1200
22.5°	1062	1075	1109	1205	1262
25°	1040	1051	1110	1260	1318
27.5°	1015	1029	1127	1311	1388
30°	987	1006	1160	1373	1462
32.5°	956	982	1192	1436	1524
35°	926	959	1223	1482	1566
37.5°	894	937	1259	1505	1566
40°	861	922	1292	1499	1522
42.5°	825	914	1311	1483	1615
45°	785	911	1322	1619	2072
47.5°	742	913	1327	1980	2280
50°	697	908	1334	2053	2164
52.5°	650	900	1365	1805	1709
55°	599	886	1421	1253	741
57.5°	541	857	1218	486	287
60°	471	785	837	173	92
62.5°	378	655	402	47	19
65°	279	425	107	14	12
67.5°	157	183	21	9	8
70°	37	36	8	6	6
72.5°	8	8	5	5	4
75°	5	4	4	3	3
77.5°	4	3	3	2	2
80°	3	2	2	2	1
82.5°	2	2	1	1	1
85°	1	1	1	0	0
87.5°	1	0	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)