

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: 188P141

Luminaire Tested: **2EP3GX-232S46I-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 188P141
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-232S46I-PAF
Description: 2 X 4 Recessed Convertible Body Luminaire with a 3" deep
24 cell semi-specular low iridescent parabolic louver.
Light Source: Two - FO32T8/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 88.22

Summary

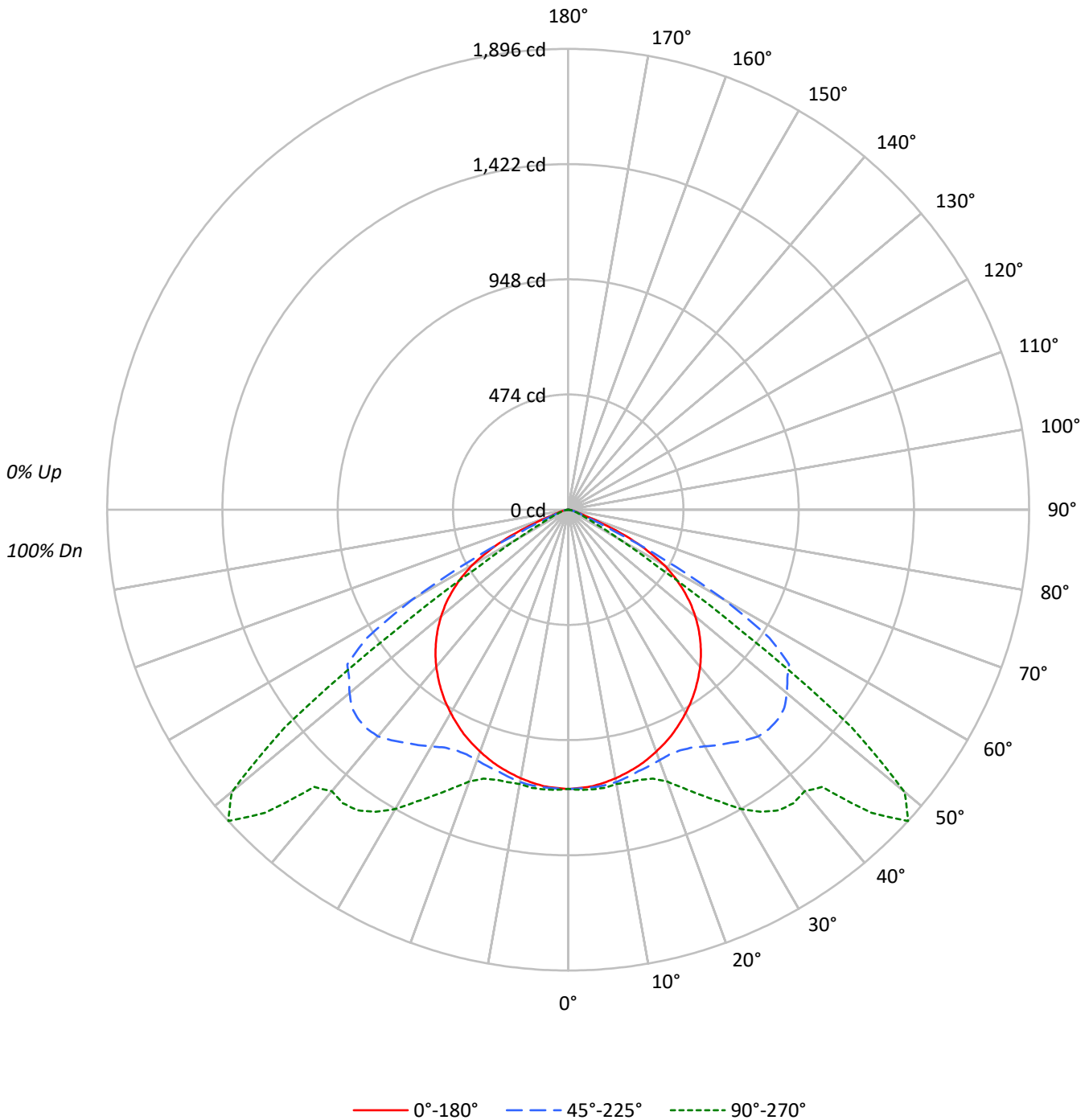
Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 3714.0 lumens
Efficiency: 66.3%
Efficacy: 63.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 2.2 / 1.78
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 58.7
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	66
1	73	71	68	66	72	69	67	65	66	65	63		64	62	61		62	60	59	58
2	67	62	59	55	66	61	58	54	59	56	53		57	54	52		55	53	51	50
3	62	55	50	46	60	54	50	46	52	48	45		50	47	44		49	46	44	42
4	56	49	43	39	55	48	43	39	46	42	38		45	41	38		44	40	37	36
5	52	44	38	34	50	43	37	33	41	37	33		40	36	33		39	35	32	31
6	48	39	33	29	46	38	33	29	37	32	29		36	32	28		35	31	28	27
7	44	35	29	25	43	35	29	25	34	29	25		33	28	25		32	28	25	23
8	41	32	26	22	40	31	26	22	30	26	22		30	25	22		29	25	22	21
9	38	29	24	20	37	29	23	20	28	23	20		27	23	20		26	22	20	18
10	35	27	21	18	34	26	21	18	26	21	18		25	21	18		24	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1907	1907	1907
5°	1903	1911	1925
10°	1891	1918	1932
15°	1882	1914	1976
20°	1871	1938	2102
25°	1863	2000	2372
30°	1852	2154	2726
35°	1842	2371	3060
40°	1829	2637	3276
45°	1805	2864	4141
50°	1761	3032	4664
55°	1679	3209	2535
60°	1511	2457	783
65°	1104	813	350
70°	393	281	218
75°	218	180	141
80°	153	124	86
85°	114	76	38



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	109.2	2.9	1.9	0°	1149	1149	1149	1149	1149	
10°-20°	317.4	8.5	5.7	5°	1142	1143	1147	1151	1155	108
20°-30°	523.2	14.1	9.3	15°	1095	1103	1114	1139	1150	309
30°-40°	740.8	19.9	13.2	25°	1017	1028	1092	1230	1295	469
40°-50°	936.6	25.2	16.7	35°	909	943	1170	1412	1510	569
50°-60°	807.6	21.7	14.4	45°	769	875	1220	1455	1764	592
60°-70°	240.0	6.5	4.3	55°	580	791	1109	1107	876	515
70°-80°	33.8	0.9	0.6	65°	281	376	207	99	89	268
80°-90°	5.4	0.1	0.1	75°	34	34	28	24	22	41
90°-100°	0.0	0.0	0.0	85°	6	5	4	3	2	7
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°	949.8	25.6	17.0	165°	0	0	0	0	0	0
0°-40°	1690.6	45.5	30.2	175°	0	0	0	0	0	0
0°-60°	3434.8	92.5	61.3	180°	0	0	0	0	0	0
0°-90°	3714.0	100.0	66.3							
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°	3714.0	100.0	66.3							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1149	1149	1149	1149	1149
2.5°	1146	1147	1148	1150	1154
5°	1142	1143	1147	1151	1155
7.5°	1133	1136	1144	1150	1154
10°	1122	1127	1138	1143	1146
12.5°	1109	1116	1127	1140	1148
15°	1095	1103	1114	1139	1150
17.5°	1078	1088	1106	1140	1160
20°	1059	1070	1097	1155	1190
22.5°	1039	1051	1090	1184	1240
25°	1017	1028	1092	1230	1295
27.5°	992	1007	1103	1274	1354
30°	966	987	1124	1324	1422
32.5°	939	965	1148	1378	1474
35°	909	943	1170	1412	1510
37.5°	877	921	1195	1431	1522
40°	844	903	1217	1434	1512
42.5°	808	888	1223	1423	1547
45°	769	875	1220	1455	1764
47.5°	727	862	1206	1606	1896
50°	682	846	1174	1643	1806
52.5°	634	823	1136	1472	1467
55°	580	791	1109	1107	876
57.5°	521	741	981	621	438
60°	455	658	740	308	236
62.5°	371	534	445	167	133
65°	281	376	207	99	89
67.5°	169	213	97	67	63
70°	81	94	58	47	45
72.5°	50	52	39	34	32
75°	34	34	28	24	22
77.5°	24	23	19	16	14
80°	16	16	13	11	9
82.5°	10	10	8	6	5
85°	6	5	4	3	2
87.5°	3	2	1	1	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)