

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: 104P225

Luminaire Tested: **2P2GX-332S613I-2BC-PAF**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: 104P225  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2P2GX-332S613I-2BC-PAF  
Description: 2 X 4 Recessed Convertible Body Troffer with a  
2" deep 78 cell semi-specular parabolic louver.  
Light Source: Three-FO32T8/35K - 2850 Lumens ea. - 32 Watts ea.  
Ballast/Driver: Two-Triad B232I120RH Electronic; L.O.B.F. = 87.16,87.78

**Summary**

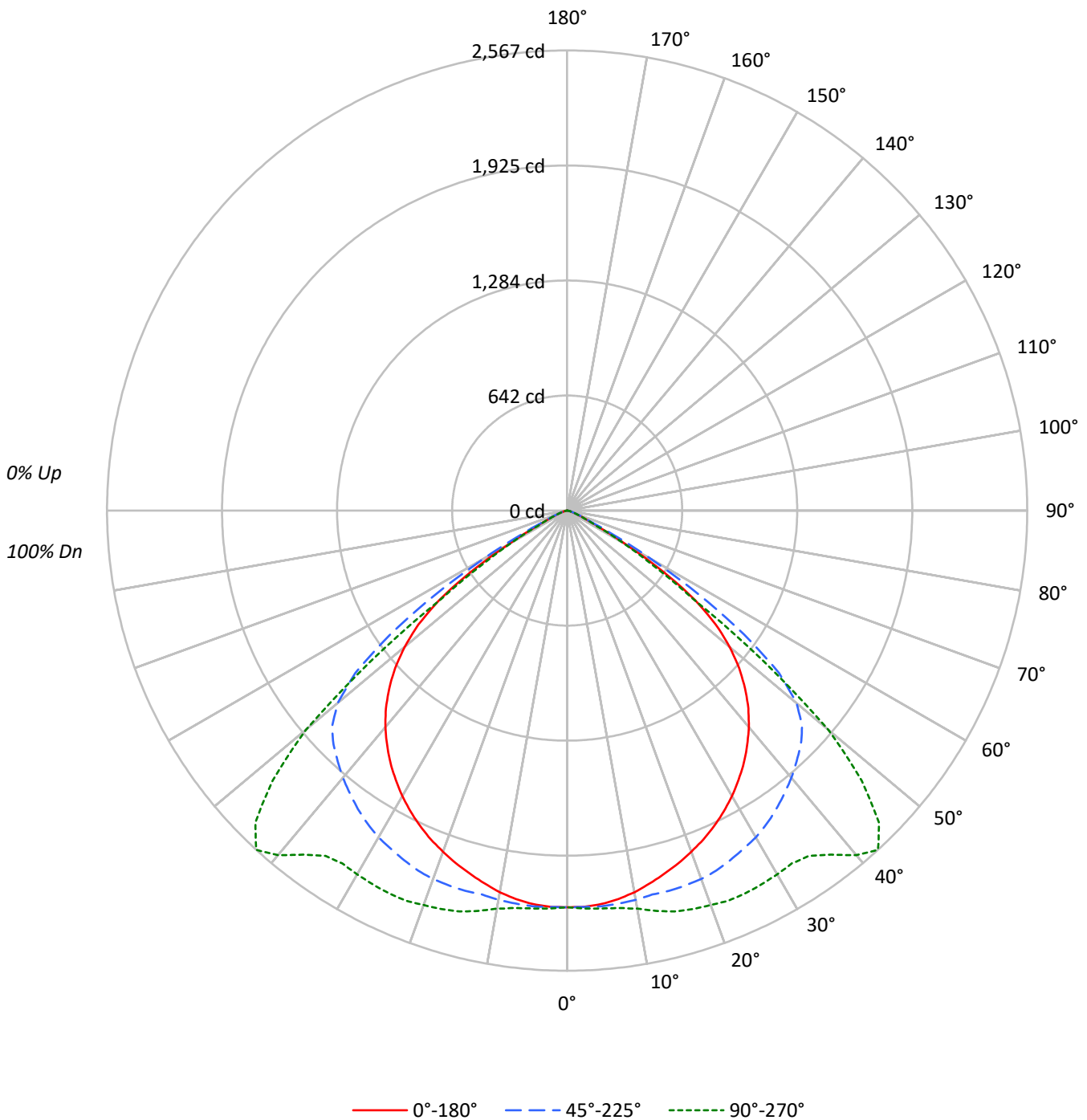
Lumens per Lamp: 2850 (3 lamps)  
Luminaire Lumens: 5655.5 lumens  
Efficiency: 66.1%  
Efficacy: 60.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.71 / 1.55  
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')  
CIE Type: Direct

Input Watts (W): 93  
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	73	73	73		70	70	70		67	67	67	66
1	74	71	69	67	72	70	68	66	67	65	64		65	63	62		62	61	60	59
2	68	64	60	57	67	63	59	56	60	58	55		58	56	54		56	54	53	51
3	63	57	53	49	61	56	52	48	54	51	48		52	49	47		51	48	46	45
4	58	51	46	42	57	50	46	42	49	45	41		47	44	41		46	43	40	39
5	54	46	41	37	52	45	40	37	44	40	36		43	39	36		42	38	36	34
6	50	42	36	32	48	41	36	32	40	35	32		39	35	32		38	34	31	30
7	46	38	32	29	45	37	32	29	36	32	28		35	31	28		35	31	28	27
8	43	34	29	26	42	34	29	26	33	29	25		32	28	25		32	28	25	24
9	40	32	26	23	39	31	26	23	30	26	23		30	26	23		29	25	23	21
10	37	29	24	21	37	29	24	21	28	24	21		28	23	21		27	23	21	19

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

	0°	45°	90°
0°	3673	3673	3673
5°	3671	3692	3712
10°	3644	3717	3801
15°	3604	3774	3978
20°	3577	3863	4137
25°	3555	3941	4313
30°	3525	4035	4491
35°	3483	4122	4764
40°	3417	4217	5437
45°	3296	4329	5773
50°	3055	4310	4909
55°	2526	3487	2460
60°	1268	1783	1172
65°	456	542	448
70°	238	267	248
75°	141	167	148
80°	96	105	96
85°	38	57	38



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	211.2	3.7	2.5	0°	2213	2213	2213	2213	2213	
10°-20°	623.1	11.0	7.3	5°	2203	2207	2216	2224	2228	209
20°-30°	992.1	17.5	11.6	15°	2097	2124	2196	2282	2315	592
30°-40°	1278.6	22.6	15.0	25°	1941	2007	2152	2292	2355	894
40°-50°	1435.4	25.4	16.8	35°	1719	1847	2034	2214	2351	1074
50°-60°	910.0	16.1	10.6	45°	1404	1563	1844	2267	2459	1076
60°-70°	172.5	3.1	2.0	55°	873	1027	1205	999	850	743
70°-80°	28.7	0.5	0.3	65°	116	149	138	124	114	149
80°-90°	3.8	0.1	0.0	75°	22	26	26	24	23	26
90°-100°	0.0	0.0	0.0	85°	2	3	3	3	2	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°	1826.4	32.3	21.4	165°	0	0	0	0	0	0
0°-40°	3105.0	54.9	36.3	175°	0	0	0	0	0	0
0°-60°	5450.4	96.4	63.7	180°	0	0	0	0	0	0
0°-90°	5655.5	100.0	66.1							
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°	5655.5	100.0	66.1							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2213	2213	2213	2213	2213
2.5°	2212	2211	2213	2219	2222
5°	2203	2207	2216	2224	2228
7.5°	2186	2197	2211	2230	2236
10°	2162	2177	2205	2237	2255
12.5°	2130	2151	2194	2262	2287
15°	2097	2124	2196	2282	2315
17.5°	2063	2097	2193	2297	2331
20°	2025	2067	2187	2296	2342
22.5°	1986	2035	2174	2295	2355
25°	1941	2007	2152	2292	2355
27.5°	1892	1976	2128	2276	2350
30°	1839	1938	2105	2255	2343
32.5°	1780	1896	2072	2235	2334
35°	1719	1847	2034	2214	2351
37.5°	1650	1790	1990	2217	2419
40°	1577	1724	1946	2253	2509
42.5°	1496	1648	1895	2286	2567
45°	1404	1563	1844	2267	2459
47.5°	1301	1465	1778	2093	2229
50°	1183	1351	1669	1817	1901
52.5°	1046	1210	1489	1453	1384
55°	873	1027	1205	999	850
57.5°	640	789	870	605	564
60°	382	508	537	379	353
62.5°	202	277	274	218	182
65°	116	149	138	124	114
67.5°	74	90	83	80	75
70°	49	58	55	53	51
72.5°	33	38	37	36	34
75°	22	26	26	24	23
77.5°	15	17	17	16	15
80°	10	11	11	10	10
82.5°	6	6	6	6	5
85°	2	3	3	3	2
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)